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July 16, 2015

Mr. Frank Bottorff
City of Havelock
Post Office Box 368
Havelock, North Carolina 28532

Subject: **LIMITED SITE ASSESSMENT REPORT**
MEL-BURN LAUNDRY & DRY-CLEANING SERVICE
244 EAST MAIN STREET
HAVELOCK, CRAVEN COUNTY, NORTH CAROLINA
MID-ATLANTIC JOB NO. 000R2478.00 T4065

Dear Mr. Bottorff:

We are pleased to present this Limited Site Assessment Report for the above-referenced site. We appreciate the opportunity to provide environmental services to the City of Havelock. Please contact me at 919-250-9918 if any questions arise or if we may be of further service.

Sincerely,

MID-ATLANTIC ASSOCIATES, INC.

Daniel H. Nielsen, P.E.
Principal Engineer

Enclosure

LIMITED SITE ASSESSMENT REPORT
MEL-BURN LAUNDRY & DRY-CLEANING SERVICE
244 EAST MAIN STREET
HAVELOCK, NORTH CAROLINA

Prepared For:

Mr. Frank Bottorff
City of Havelock
Post Office Box 368
Havelock, North Carolina 28532

Prepared By:

Mid-Atlantic Associates, Inc.
409 Rogers View Court
Raleigh, North Carolina 27610

Mid-Atlantic Job No. 000R2478.00 T4065

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244 EAST MAIN STREET
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Prepared For:

Mr. Frank Bottorff
City of Havelock
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Havelock, North Carolina 28532

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1.0 INTRODUCTION

In accordance with Revision 1 of the Generic Quality Assurance Project Plan (QAPP) dated August 7, 2013, and the Site Specific QAPP Addendum B-1, Revision 00 (SSQAPP) dated November 26, 2014, Mid-Atlantic Associates, Inc. (Mid-Atlantic) has prepared this Limited Environmental Site Assessment Report for the Mel-Burn Laundry & Dry-Cleaning Service (Mel-Burn) site located at 244 East Main Street, Havelock, North Carolina (**Drawing 1.1**).

The site consists of one rectangular-shaped parcel of land totaling approximately 0.24 acres and recorded as Parcel ID Number 6-062-004 by the Craven County Tax Administrator's Office. The parcel is zoned COMM (General Commercial Use) by the Craven County Planning Department. The site is improved with one approximately 3,400 square-foot dry-cleaning facility. Additional site improvements include asphalt parking areas, landscaped areas and concrete sidewalks. At the time of the site inspection, the site was operating as Mel-Burn Laundry & Dry-Cleaning Service. Based on interview information and historical documents, it appears the present-day facility has operated as a dry-cleaning facility since its construction in 1945. The current owner-occupant, Mr. Pete Naik, reported that he purchased the property in 1984 and since that time the plant has used petroleum solvents to dry-clean. To his memory, petroleum dry-cleaning equipment was also used at the plant prior to his purchase of the property. A petroleum solvent dry-cleaning UST located under a wood shed attached to the northwest side of the building was formerly used to supply petroleum solvent to the dry-cleaning machine (**Drawing 1.2**). A fill port marks the location of the UST, and Mr. Naik reported that the tank was 150 gallons in size. Currently, a 55-gallon drum of petroleum dry-cleaning solvent is used to supply the dry-cleaning machine.

This Phase II ESA work was conducted based on the findings of a ***Phase I Environmental Site Assessment*** (PESA) completed by Mid-Atlantic on July 21, 2014 for the Mel-Burn site. The PESA identified the following recognized environmental conditions (RECs) associated with the site:

- The current and historical operation of the subject site as a dry-cleaning facility with known releases and disposal of petroleum-saturated dry-cleaning waste; and
- The documented heating oil release at the south adjacent 246 East Main Street property (Annunciation Catholic School).

After the Phase I ESA was completed, Mid-Atlantic visited the site again to locate potential boring locations for the SSQAPP. Mr. Naik identified the location of a former heating oil UST located under the rear (southwest side) of the building that was used to fuel a former boiler (**Drawing 1.2**). Mr. Naik reported that the heating oil UST has not been used for the last 15 to 20 years, since the boiler fuel supply was changed to fuel oil from a 550-gallon fuel oil AST.

The SSQAPP was developed, and this site assessment was completed, to determine if the RECs identified in the July 21, 2014 Phase I ESA had adversely impacted the site. The objective of this assessment was to determine if contaminants of concern were

present at the Mel-Burn site at levels that would be an impediment to future sale or redevelopment of the property. Based on these initial results, it appears that soil and groundwater contaminants are present with concentrations in excess of the North Carolina action levels for soil, state groundwater standards and the state vapor intrusion groundwater screening levels. The presence of these contaminants could impede the redevelopment without some type of corrective actions, institutional controls and/or engineering controls.

2.0 SUMMARY OF FIELD ACTIVITIES

Before Mid-Atlantic fieldwork was initiated, Ground Penetrating Radar (GPR) and traditional locating methods were used by Southeastern Locating Services, LLC (SLS) to search for underground supply lines for dry-cleaning equipment, the location and orientation of the inactive dry-cleaning UST and inactive heating oil UST, and to locate underground private utility service lines. The supply lines appeared to be entering the building from a grassed area on the northwest side of the building. SLS then excavated shallow holes with hand shovels to reveal the underground delivery line, which was approximately 7 inches below land surface (BLS) near the building and 10 inches BLS closest to the UST. While digging, petroleum contaminated soils were discovered within a few inches of land surface and emitted petroleum odor. The inactive dry-cleaning UST is located under the shed and based on the GPR results does not appear to extend past the shed walls. The approximate location of this UST is shown on **Drawing 1.2**. The inactive heating oil UST is located under a cinder block addition to the dry-cleaner and extends out about one foot into the alleyway on the west side of the building. Based on the GPR signals, the tank is approximately four feet wide.

Underground service lines connect the dry-cleaner building to sewer, water and natural gas utilities. The private sewer line connects to the building on the southwest side. The water line connects to the building on the northeast corner, near East Main Street. Natural gas lines parallel the building on the northwest and southeast sides and connect to the Catholic school buildings and possibly the adjacent Main Street Self Storage business located on the northern adjacent property.

Mid-Atlantic completed soil and groundwater sampling activities on January 20, 21 and 29, 2015. Soil samples were collected on January 20, 2015 from borings installed for both soil testing and installation of groundwater monitoring wells. Groundwater sampling activities were completed on January 21 and 29, 2015. At boring and well locations where visual evidence of soil and water contamination was apparent, investigation-derived waste (IDW) consisting of soil cuttings and purge water were containerized in 55-gallon drums for waste profiling, transport, and disposal. The soil cuttings and purge water wastes were accepted for non-hazardous disposal by Clearfield MMG, Inc., a waste contractor based in

Chesapeake, Virginia and permitted by the North Carolina DWM. Clearfield MMG picked up the drums on March 26, 2015 and delivered the waste drums to their Chesapeake, Virginia facility for disposal. Waste handling and disposal documentation is included in **Appendix A**.

2.1 Soil Sampling Activities

On January 20, 2015, Mid-Atlantic mobilized to the site to oversee the advancement of five soil borings and installation of four groundwater monitoring wells. Soil boring and monitoring well installation services (**Section 2.2**) were provided by Probe Technology, Inc. (PTI) of Concord, North Carolina.

Soil Boring Locations

Sampling locations were selected to assess soil and groundwater quality at the following areas of concern (AOC). The AOCs were specified in the February 3, 2014 SSQAPP and shown on **Drawing 1.2**. Soil samples for textural classification and headspace screening were obtained from one stand-alone boring and four monitoring wells installed on the subject site.

- Two soil borings (SB-1, SB-4), one groundwater monitoring well (TMW-1), two soil samples and one groundwater sample were collected at area of concern number one (AOC 1), the inactive petroleum dry-cleaning UST on the northwest side of the building near the shed;

- One soil boring (SB-3), one groundwater monitoring well (TMW-3) one soil sample and one groundwater sample were collected at AOC 2, near the dry-cleaning equipment and former petroleum solvent delivery line where it enters the dry cleaner building;

- One soil boring (SB-4) and one associated soil sample in the former location of stained soil (AOC 3) as indicated in the July 2014 Phase I ESA; and,

- Two soil borings (SB-2, SB-5), two groundwater monitoring wells (TMW-2, TMW-5), two soil samples and two groundwater sample were collected at and near AOC 4, the inactive fuel oil UST located under the west side of the building.

Soil Sampling and Screening Procedure

Using a GeoProbe “macrocore” sampling device and direct push technology (DPT), continuous soil samples were collected at each soil boring and scanned for the presence of volatile organic compounds (VOCs) using a toxic vapor analyzer (TVA), equipped with a

flame ionization detector (FID). Mid-Atlantic observed field indicators of contamination and/or elevated TVA readings (>10 parts per million (ppm)) for the FID from 4 of the 5 boring locations. Elevated TVA readings of >100 ppm were measured in soils at the 4 locations, at the borings and depths noted below:

SB-1 (5 to 15 ft. BLS);
SB-3 (2.5 to 14 ft. BLS);
SB-4 (0 to 5 ft. BLS); and,
SB-5 (10 to 15 ft. BLS)

These depths include the water table and capillary fringe zone, identified below the site at depths of approximately 8.1 to 9 feet BLS. Boring Logs **(Appendix B)** note the FID readings recorded by Mid-Atlantic personnel as drilling progressed. The highest FID readings were encountered in boring SB-1 located adjacent to the petroleum solvent dry-cleaning UST. Starting at 5 feet BLS, the readings ranged from 763 parts per million (ppm) to 1.5% (15,000 ppm) total VOCs. The most contaminated surface soils, in terms of FID readings, were collected from 0 to 5 feet BLS at SB-4 where the FID readings ranged from 1706 ppm to 2557 ppm.

The soil samples collected from the depth in the unsaturated zone that had the highest FID readings were typically chosen for laboratory analysis. In general, the lithology at the site consists of gray fine sandy clay at the surface underlain by silty fine sand with some sandy clay and fine sand horizons. The deeper borings were extended to 15 feet BLS. Soil boring logs are provided in **Appendix B**.

A total of six soil samples were collected from the subject site for laboratory analysis, including five grab primary samples and one grab duplicate sample. New nitrile gloves were worn during the collection of each sample, and samples selected for laboratory submittal were placed into laboratory-supplied bottles. Samples were then packed into an ice-filled cooler and shipped under chain-of-custody to Prism Laboratories, Inc. (Prism) in Charlotte, North Carolina. All the grab samples and the one duplicate grab sample was submitted for analysis of volatile organic compounds (VOCs) according to EPA method 8260B. Grab samples SB-1 to SB-5 were also tested for semi-volatile organic compounds (Semi-VOCs) according to EPA method 8270D. The tests completed were in accordance with the SSQAPP.

One duplicate soil sample (Dup-1) was collected from soil sample location SB-2 (5-7.5'). The sample was collected by splitting recovered soils into jars planned for the primary sample and duplicate sample. Further information is presented in **Section 4.2.1**.

2.2 Groundwater Sampling Activities

On January 20, 2015, PTI under Mid-Atlantic's supervision, constructed four temporary monitoring wells on the subject property (TMW-1, TMW-2, TMW-3 and TMW-5), and then converted the temporary wells to permanent wells after field indications of contaminated soil and groundwater were encountered. The monitoring wells were installed to address the four AOCs noted in **Section 2.1**. The locations of the monitoring wells are shown on **Drawing 1.2**. The temporary wells were constructed using 1-inch diameter Schedule 40 PVC casing and slotted well screen installed in a borehole approximately 3 inches in diameter. The intake interval for the well (i.e. slotted well screen) was installed such that the well screen bracketed the water table at the time of construction. Original plans called for installation of temporary monitoring wells without well covers, so PTI did not have flushmount well vaults available at the time of drilling on January 20, 2015. Instead, PTI purchased "male" type sewer cleanout covers and grouted them in place temporarily. On January 29, 2015, Mr. Gary Fischer of Mid-Atlantic[1], removed the temporary sewer clean out covers and installed flushmount well vaults. Well construction details for the monitoring wells are summarized in **Table 2.1** and documented on the well construction records included in **Appendix C**.

Mid-Atlantic personnel surveyed the top of casing (TOC) elevations relative to a temporary benchmark of 100 feet above mean sea level (MSL). Mid-Atlantic first measured depth to groundwater in the monitoring wells approximately 16 hours after they were developed on January 21, 2015, which allowed for groundwater levels to return to static conditions (**Table 2.1**). Groundwater depths were measured again on January 29, 2015 when Mid-Atlantic returned to the site to complete construction of the flush-mount wellheads and to sample three of the four wells (discussed in the last paragraph of this section). Depth to groundwater measured on January 29, 2015 ranged from 8.05 to 8.89 feet below TOC. The top of each well casing was constructed approximately 1 to 2 inches BLS to provide for installation of the flushmount well cover. Using the survey elevations and water level measurements from January 29, 2015, an estimated groundwater elevation contour map was prepared for the site and is provided as **Drawing 2.1**. As shown, the estimated groundwater flow direction at the site was determined to be southwest, generally towards a perennial stream and marsh labelled "East Prong" (**Drawing 1.1**).

Upon completion, the wells were developed using new, disposable polyethylene bailers. The Mid-Atlantic technician observed a typical petroleum sheen on purge water placed in a bucket from developing temporary wells TMW-1, TMW-3 and TMW-5. Therefore, it was decided to convert the wells into permanent wells and wait to sample the three wells at a later date if a measurable thickness of free product was not identified. A groundwater sample

[1] North Carolina Certified Well Driller No. 3339-A.

was collected from TMW-2[2] on January 21, 2015, and this well was also converted to a permanent well. Mid-Atlantic returned to the site on January 29, 2015 and gauged the four wells with an oil-water interface probe. No measurable thickness of free product was noted and groundwater samples were collected from TMW-1, TMW-3 and TMW-5. For sampling, equipment included new polyethylene tubing, silicone tubing and a peristaltic pump. Sampling was completed using the low flow method and water quality measurements were obtained during purging including pH, specific conductance, temperature and turbidity. Field data sheets from groundwater sampling are included as **Appendix D**. Groundwater from wells TMW-2 and TMW-3 showed the least turbidity and towards the end of purging yielded generally clear samples that had stabilized readings of less than 19 Nephelometric Turbidity Units (NTU). Water from well TMW-5 was more turbid, yielding water with 87.2 NTU and 50 NTU after 21 and 24 minutes of purging, respectively. The turbidity was greatest at TMW-1, where groundwater cleared up to 204 NTU and 151 NTU after 21 and 24 minutes of purging, respectively. On January 29, 2015, Mid-Atlantic staff described the petroleum odor associated with the purge water from the wells as minor (TMW-5), fairly strong (TMW-1) and strong (TMW-3). Non-measurable petroleum sheens were observed on purge water from TMW-3 and TMW-5, with the TMW-5 sheen being described as “very light”.

Mid-Atlantic filled pre-cleaned containers provided by the laboratory for the designated tests. After filling, groundwater samples were placed into an ice-filled cooler and shipped under chain-of-custody to Prism. Quality assurance/quality control samples (QA/QC) collected on January 21, 2015 included a trip blank and on January 29, 2015 included a duplicate sample from TMW-1, an equipment rinse blank and a trip blank. Laboratory testing of groundwater samples was completed in accordance with the SSQAPP. The groundwater samples, including the QA/QC samples, were analyzed for VOCs according to EPA Method 8260B. The primary groundwater samples (not the QA/QC samples) from TMW-1, TMW-2, TMW-3 and TMW-5 were also tested for semi-VOCs by EPA Method 8270D.

SUMMARY OF LABORATORY TEST RESULTS

The laboratory analytical report and chain-of-custody records for the soil and groundwater samples collected at the site are provided in **Appendix E**. Tables included in this report for soil and groundwater samples (**Tables 3.1 and 3.2)** summarize only the soil and groundwater samples that exhibited chemical constituent concentrations at detectable levels.

[2] The groundwater sample from TMW-2 was labelled “SB-2” on the chain of custody and in the laboratory report.

Soil Sample Results

As documented in **Table 3.1** soil samples from borings SB-2, SB-3, SB-4 and SB-5 exhibited constituents at concentrations equal to or above one or more maximum soil contaminant concentrations (MSCCs) established by the Division of Waste Management (DWM), NCDENR for UST sites. The subject site used USTs to store petroleum dry-cleaning solvent and heating oil as noted earlier. The MSCCs are action levels associated with the protection of groundwater (identified as "Soil to Groundwater" (STG) by the DWM) from migrating contaminants, and health-based action levels for the protection of human populations in residential and industrial/commercial settings. The STG action levels are typically the most stringent, however for selected low mobility semi-VOCs the residential MSCC is higher. Few contaminants (1,2,4-trimethylbenzene (1,2,4-TMB), 1-methylnaphthalene (1-MN) and/or naphthalene) were exhibited in soil samples SB-2 and SB-5 at concentrations above the STG MSCCs. Several contaminants (six) were exhibited in soil samples SB-3 and SB-4 at concentrations above the STG MSCCs (**Table 3.1**). While the concentrations were exhibited above the STG MSCCs, the detected levels were below the established health-based residential and industrial/commercial MSCCs. Soil Boring SB-3 was drilled on the northwest side of the building near where the underground petroleum solvent delivery line enters the building. Soil boring SB-4 was drilled on the northeast side of the petroleum solvent UST, also near the delivery line, and in the location of where we previously noted stained soil (AOC 3). The petroleum dry-cleaning solvent UST was identified as AOC 2 in the SSQAPP and **Section 2.1**.

Mid-Atlantic observed moderate to strong petroleum odors and stained soil in both near-surface and deeper soils in the area of the delivery line and to the northeast of the petroleum dry-cleaning solvent UST. The boring logs in Appendix B indicate the high FID readings measured from soils collected during drilling of the borings in AOC 2 and 3. The highest FID readings were measured in SB-1; however, the depths that produced the samples appear to be located within the capillary fringe of the water table.

Some of the laboratory samples required dilution by the laboratory so the results would fall within the instrument calibration range for the semi-VOC analysis (EPA Method 8270D). These samples include SB-2 and SB-4. For all the EPA Method 8270D tests, the lowest detection limit that could be achieved by the laboratory for 1-methylnaphthalene in undiluted samples was 0.075 mg/Kg, which is above the STG MSCC of 0.004 mg/Kg.

The constituents detected in the soil samples appear related to petroleum, except for tetrachloroethylene (also known as perchloroethylene (PCE)) which was exhibited in soil sample SB-5. The exhibited concentration was low (0.0051 mg/kg) and below the STG MSCC of 0.0074 mg/kg. However, PCE was exhibited in a groundwater sample collected from this location.

Summary: Soil is present at the site with contaminant concentrations in excess of the Soil to Water MSCCs for petroleum-related compounds. However, the exhibited concentrations are below the established health-based action levels for Residential and Industrial/Commercial settings. **Drawing 3.2** depicts the estimated extent of soil at the site with concentrations in excess of the DWM STG MSCCs.

Groundwater Sample Results

The groundwater sample laboratory results were compared to the NCGQS in order to evaluate the site for potential groundwater contamination. Constituents were detected above the laboratory method detection limits (MDL) in each sample; the majority of which are associated with petroleum. Contaminants associated with PCE, or chemicals produced from the natural breakdown of PCE, were discovered in groundwater samples from TMW-2 and TMW-5. The current property and business owner (Mr. Pete Naik) stated that petroleum solvent has been used for dry-cleaning since at least 1984 when he purchased the business and property. Mr. Naik indicated that, to the best of his memory, a petroleum solvent dry-cleaning machine was in place when he purchased the business. The Craven County Tax Office lists the construction date for the building as 1945. Therefore, a PCE dry-cleaning machine could have been used in the past prior to Mr. Naik's ownership in 1984.

Petroleum-related constituents at concentrations above the State standards were exhibited in groundwater samples collected at the four monitoring wells and the duplicate samples. Groundwater contaminants are highest at well TMW-3, located adjacent to where the underground delivery line enters the building. Five constituents (**Table 3.2**) were exhibited in groundwater sample TMW-3 at concentrations above applicable groundwater standards, including three VOCs (4-isopropyltoluene, naphthalene, 1,2,4-trimethylbenzene (1,2,4-TMB)) and two semi-VOCs (1-methylnaphthalene and naphthalene[3]).

Contaminants associated with PCE or from the natural breakdown of dry-cleaning constituents were discovered in groundwater samples collected from near the inactive heating oil UST (TMW-2 and TMW-5) on the hydraulically down-gradient side of the dry-cleaner business based on review of the groundwater table elevation contour map (**Drawing 2.1**). The highest concentration of PCE was measured in groundwater sample TMW-5 (16 µg/L). The concentration of PCE detected at TMW-5 is less than the Groundwater Vapor Intrusion Screening Level for non-residential settings. Under reducing conditions, PCE may degrade into trichloroethylene (TCE), followed by cis-1,2-dichloroethylene (cis-1,2-DCE), followed by vinyl chloride and finally, ethene. The earlier degradation compounds TCE and cis-1,2-DCE were not exhibited in samples TMW-2 or TMW-5 above detection limits. The

[3] Naphthalene is a compound that is detected by both the VOC (EPA Method 8260B) and semi-VOC (EPA Method 8270D) tests.

degradation compound cis-1,2-DCE was exhibited at low concentrations below the NCGQS (1 to 2 µg/L) in groundwater samples TMW-1 and TWM-5. However, PCE and the other degradation compounds were not detected. The presence of vinyl chloride in the TMW-5 groundwater sample may suggest an older, historic release of PCE prior to use of petroleum solvents to clean garments.

Five constituents were detected in groundwater at concentrations above the groundwater screening level for residential vapor intrusion established by the Inactive Hazardous Sites Branch (IHSB) of the DWM. These compounds included 1,2,4-TMB in groundwater samples TMW-1, TMW-2, TMW-3 and TMW-4; naphthalene and total xylenes in groundwater sample TMW-3 and PCE in groundwater sample TMW-5. Applicable concentrations listed in the vapor intrusion screening table are listed in **Table 3.2**.

Two VOC contaminants were detected at concentrations above the IHSB groundwater screening levels for non-residential vapor intrusion. In groundwater sample TMW-3, naphthalene and 1,2,4-TMB were exhibited above the screening levels. In groundwater samples TMW-1 and TMW-5 the concentrations of 1,2,4-TMB were also above the screening levels. Applicable concentrations listed in the vapor intrusion screening table are listed in **Table 3.2**.

4.0 QUALITY ASSURANCE

The QAPP and the Addendum set forth the procedures and methods for data collection, and defined the specific procedures and adjustments necessary to maintain data quality to support the project decision. The Phase II ESA required both field and laboratory checks to monitor conformance to project quality limits.

4.1 Property-Specific Corrective Actions

The investigation field methods were reviewed during the data verification audit discussed in the next paragraph. The field methods used were consistent with the EPA guidelines included in Appendices D and E of the QAPP (note that the SSQAPP referenced the QAPP for field procedures) with the following exception:

- The turbidity values from purging temporary well generally exceeded 10 Nephelometric Turbidity Units (NTU's). Groundwater samples with less than 40 NTU (a threshold noted in the EPA turbidity meter guidelines) were collected from two of the four wells sampled (TMW-2 and TMW-3).

Data verification and data validation audits were completed by Mid-Atlantic before this report was prepared.

4.2 Quality Control Parameters

To assess whether quality assurance objectives for this project have been achieved, the following QC parameters were considered: precision, accuracy, representativeness, comparability, completeness and sensitivity.

4.2.1 Precision and Accuracy

As described in the QAPP, precision is evaluated using the relative percent difference (RPD) between an actual sample and a duplicate sample. In accordance with the Addendum, one duplicate soil sample, two duplicate groundwater samples, one equipment rinse blank sample and one trip blank sample were collected during the limited ESA activities. A comparison of the detected concentrations for the primary samples and their associated duplicate samples were made to evaluate the reproducibility of the sample results based on the laboratory analysis and sample collection and transportation procedures. For this comparison, if the duplicate or sample result is less than five (5) times the reporting limit (the higher of the two if they are not the same for each, which they almost always are), then the comparison is made by the absolute difference between the results (S-D). For water samples, if this difference is less than the magnitude of the (higher) reporting limit, precision is considered "acceptable." For soil samples, if the difference is less than twice the magnitude of the (higher) reporting limit, precision is considered "acceptable." If these differences are within two (2) times the "acceptable" limits, they are considered "slightly high" (anything beyond that would be considered "high"). If both sample and duplicate results are greater than five (5) times the reporting limit (the higher of the two RLs, if they are not the same), then precision is assessed by the %RPD (difference in results divided by the average of the two results X 100). Results of <35% RPD indicates precision is "good/acceptable", results >35% but < 50% indicate precision is "slightly high", while results of >50% indicate precision is considered "high".

Based on the data qualifiers provided by the laboratory and on the sample/sample duplicate comparison described above, data will be categorized as fully quantified, qualified, or unusable. Unusable data will not be utilized in the project decision process.

Contaminants were not detected in the primary soil sample or its duplicate sample, therefore a comparison cannot be made (**Table 4.1**). The results of the comparisons for the two duplicate groundwater sample pairs are listed in **Table 4.2A** and **Table 4.2B**. The groundwater samples listed in **Table 4.2A** were tested for VOCs by EPA Method 8260B while the samples listed in **Table 4.2B** were tested for VOCs by EPA Method 8260B and semi-VOCs by EPA Method 8270. The Precision was determined to be "good/acceptable" for all analytes detected in the duplicate groundwater sample collected from TMW-2 except for methylene chloride which was "high" (**Table 4.2A**). Precision was determined to be "good/acceptable" for all analytes detected in the duplicate sample from TW-1 (**Table 4.2B**).

Accuracy is evaluated using a percent recovery measured in spiked and unspiked samples. Accuracy is a function of the laboratory method, and parameters regarding accuracy are included in the lab report provided by the laboratory.

4.2.2 Representativeness

Mid-Atlantic has evaluated the representativeness of the limited ESA activities to document the degree to which the sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Review of field methods and procedures indicated that sample collection, handling and transportation were conducted in accordance with the QAPP and Addendum. Review of analytical results indicates that the analytical data is generally uniform and consistent between sampling points.

4.2.3 Completeness

Soil: A total of six soil samples[4] were collected for analysis of VOCs (6 samples) and semi-VOCs (5 samples).

For the laboratory analyses, the SSQAPP specified analyses of 6 samples for VOCs (including testing of 1 duplicate soil sample for VOCs) and 5 samples for semi-VOCs. Therefore, completeness for VOC testing was 100% for both VOCs and semi-VOCs.

Groundwater: A total of 9 water samples[5] were collected for analysis of VOCs (9 samples) and semi-VOCs (5 samples).

For the laboratory analyses, the SSQAPP specified analyses of 7 samples for VOCs (including testing of 1 duplicate groundwater sample, 1 trip blank and 1 equipment rinse blank) and 5 samples for semi-VOCs (including testing of 1 duplicate groundwater sample). The actual number of VOC analyses was more than 100% because two trip blanks were needed since groundwater samples were collected on two different dates. On the first date, January 21, 2015, a petroleum sheen was encountered in purge water and it was thought that three of the four wells may contain a measurable thickness of free product. On January 29, 2015, a measurable thickness of free product was not identified and the remaining wells were sampled. Completeness for VOC testing was 128% and for semi-VOCs it was 100%.

[4] Including one duplicate soil sample from boring SB-2.
[5] Including two duplicate groundwater samples from TMW-1 and TMW-2, an Equipment Rinse Blank and two Trip Blanks.

4.2.4 Comparability

To produce comparable data, the units specified for analytical results obtained during the field activities are consistent throughout this project, except the soil samples are listed in the laboratory report and soil tables in units of milligrams per kilogram (mg/Kg) while the groundwater sample units in the laboratory report and table (**Table 3.2**) are in micrograms per Liter (ug/L). The soil and water units used in the report tables are similar to the units included in the State tables that are used for comparison. Standardized analytical methods have been used for each parameter.

4.2.5 Sensitivity

Laboratory quantitation limits (reporting limit and/or MDL) for soils were sufficient to report concentrations below the action levels in undiluted samples, except for 1-methylnaphthalene, a semi-VOC constituent that is a polynuclear aromatic hydrocarbon (PAH). The semi-VOC 1-methylnaphthalene has a soil to water MSCC of 0.004 mg/kg, below the MDL of 0.075 mg/kg. The MDL reflects the minimum detection limit that was achievable at the laboratory with the sample matrix.

Laboratory quantitation limits (reporting limit and/or MDL) for groundwater in undiluted samples were sufficient to report potential COC concentrations in groundwater below the action levels, except for the semi-VOC test (EPA 8270D) analyte 1-methylnaphthalene. The detection limit was 2.4 µg/L while the interim maximum allowable concentration (IMAC) is 1 µg/L. The analyte 1-methylnaphthalene is a PAH compound that has a very low action level. North Carolina regulations do not consider a compound above the NCGQS unless it is detected above the laboratory reporting limit, which is set at a higher level than the MDL.

4.3 Laboratory Data Evaluation

The laboratory completed validation and verification of laboratory processes and data, and delivered a laboratory report to the Mid-Atlantic Project Manager. The laboratory report and the QC information contained therein documents compliance to the QAPP.

The following qualifiers were used by the contract laboratory in this report when presenting data for the limited ESA samples and QA/QC samples collected by Mid-Atlantic[6]:

[6] Qualifiers assigned to laboratory control samples and laboratory QA/QC samples are not listed.

Qualifiers for Soil Samples:

"BRL" - Below Reporting Limit.
"CVL" - CCV result is below the control limits. LCS recovery within the limits. Analyte not detected in the sample. No further action taken.
"E" - Estimated concentration above the calibration range.
"IH" - Internal standard response below the QC limit. Analyte reported with possible high bias.
"IN" - Low Internal Standard response. Compound not detected. No further action taken.
"J" - Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
"LH" - High LCS recovery. Analyte not detected in the sample(s). No further action taken.
"MDL" - Method Detection Limit.
"*" - Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Qualifiers for Groundwater Samples:

"BRL", "MDL", and "J" – Same descriptions as above for soil samples.

Data usability determination is also a part of data evaluation. After data validity has been assessed, that is, the analytical data has been reviewed and qualifier codes have been applied, these data were individually identified and assessed for usability. Sample data (both with and without qualifier codes) may be generally spoken of as either qualitative (Level A), quantitative (Level B), or unusable. Obviously, within any matrix it is likely certain samples may have parameters that require qualifier codes. A discussion of these qualifier codes for each level is provided below.

4.3.1 Qualitative Data – Level A

Qualitative data are often referred to as Level A data. All screening data is considered Level A data. Screening data may not be considered as Level B data, and cannot be used to make site management decisions. Data in this level also include "J" coded data. These data are considered to be an estimated quantity, i.e., a presence or absence value. Data having been given a "J" code were not automatically classified as qualitative data only; these data were considered as Level B (quantitative) data depending on bias, and were evaluated on a case by case basis. Data reported with a "BRL" code can also be classified as Level B data provided the detection limit was not above an applicable regulatory action level for that analyte. All field-screening and field-instrument-derived data was accepted as Level A. These data were not considered for inclusion as Level B data and will not be used to make site decisions. These data include FID and PID data collected during soil core screening. All analytical data received as part of the analytical package for this site were accepted as Level

A data.

4.3.2 Quantitative Data – Level B

Data at this level are referred to as Level B data. Only data meeting all field and analytical data usability requirements may be classified as Level B data. This means all quality assurance parameters have been satisfied, including quality control and quality assessment. Only data that were found to be analytically valid and passed all criteria for Level A were considered for classification at Level B. These data are considered definitive and may be used for any purpose.

In reviewing the laboratory results, one soil sample (SB-5, 2.5'-5') had several analytes reported as detections with "J" data qualifiers, indicating the reported value is an estimate reported within the 95% confidence interval. These compounds were detected above the MDL, but below the reporting limit or "RL". The MDL is the lowest concentration at which an analyte can be detected in a sample by the particular laboratory method used. "Detected" indicates that the analyte can be distinguished from the blank with reasonable certainty. The reporting limit (also called practical quantitation limit, or PQL) is approximately five times the MDL or the lower calibration standard, whichever is higher. Results above the report limit can be distinguished from the blank and fall within applicable standard curves. For the purposes of this assessment, all "J" qualified data are considered acceptable for making site management decisions as these data are not the sole determinant of "clean." These data are accepted as Level B data, and such qualified data has been considered against applicable action levels in evaluating extent of impacts.

5.0 CONCLUSIONS

The objective of this assessment was to determine if contaminants of concern were present at the subject site at levels that may be an impediment to future redevelopment. Mid-Atlantic offers the following conclusions based on the results of this assessment as they pertain to redevelopment:

- Several constituents were exhibited in soil samples SB-3 and SB-4 collected from locations adjacent to the petroleum cleaning solvent UST and delivery line. The detected concentrations are above the Soil to Water MSCC established by the DWM. However, the concentrations are below the health-based residential and industrial/commercial MSCCs.
- Petroleum-related constituents were detected in the soil samples except for a low concentration of PCE in soil sample SB-5, collected from near the heating oil UST;
- Several contaminants were detected in groundwater and most appear petroleum-related, including 4-isopropyltoluene, naphthalene and 1,2,4-TMB;

- PCE and/or its biodegradation products cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride were exhibited in groundwater samples TMW-2 and TMW-5 at concentrations above North Carolina's groundwater standards. The sample locations are located hydraulically downgradient of the currently inactive petroleum dry-cleaning solvent UST and the existing petroleum solvent dry-cleaning machine. The property owner indicated that petroleum solvent has been used to clean clothes since approximately 1984; however dry-cleaning solvent may have been used during the early days of site operation (the building was constructed in 1945);
- The petroleum-related compounds 1,2,4-TMB, naphthalene, total xylenes and the chlorinated dry-cleaning solvent compound PCE were detected in groundwater above the groundwater screening level for residential vapor intrusion established by the IHSB of the DWM;
- The petroleum-related compounds 1,2,4-TMB and naphthalene were detected above the groundwater screening concentration for non-residential vapor intrusion (established by the IHSB); and,
- The lateral and vertical extent of the groundwater contaminant plume is not defined.

Based on the data collected to date, contaminants of concern are present at the subject site that could be an impediment, depending on the type of redevelopment planned. Vapor intrusion may also represent a concern to the subject site building and buildings located on adjacent properties. The adjacent buildings include an indoor self-storage facility, two thrift shops and a Catholic school. The Catholic school building is located approximately 100 feet southwest of the subject site at a hydraulically downgradient location.

Since groundwater quality at the site has been impacted at concentrations in excess of North Carolina Groundwater standards, Mid-Atlantic recommends a copy of this report be provided to the UST Section of the DWM.

DRAWINGS

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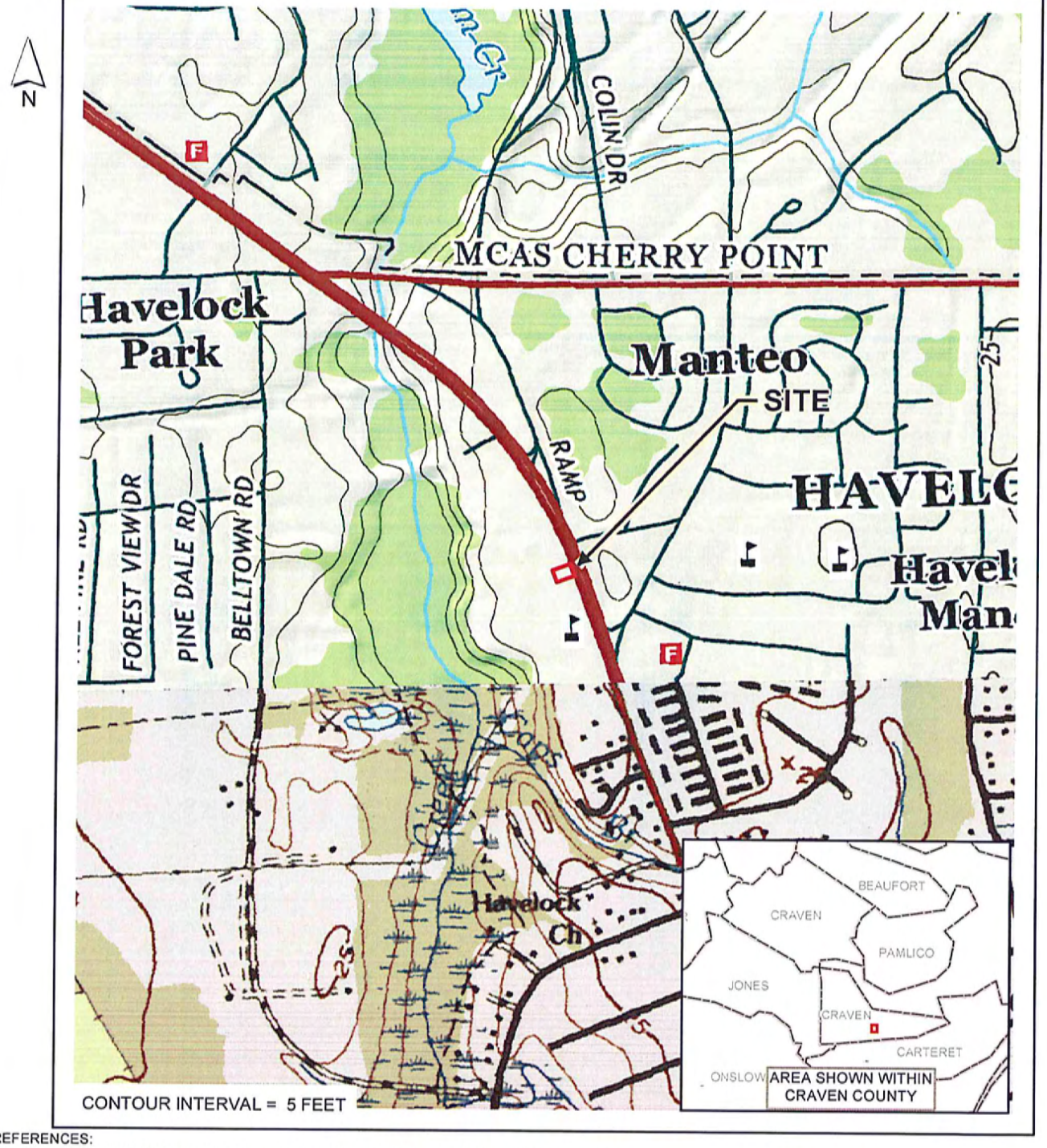


REFERENCES:

1. HAVELOCK & MASONTOWN NC DIGITAL RASTER GRAPHIC FILES, USGS. SCANNED FROM 1:24,000 SCALE HAVELOCK & MASONTOWN NC TOPOGRAPHIC MAPS, PUBLISHED 2013 &1994 RESPECTIVELY, USGS.
2. INSET MAP DIGITAL DATA FROM 2002 NATIONAL TRANSPORTATION ATLAS, BUREAU OF TRANSPORTATION STATISTICS, WASHINGTON, D.C.
3. PROPERTY BOUNDARY DATA FROM CRAVEN COUNTY GIS DEPARTMENT.

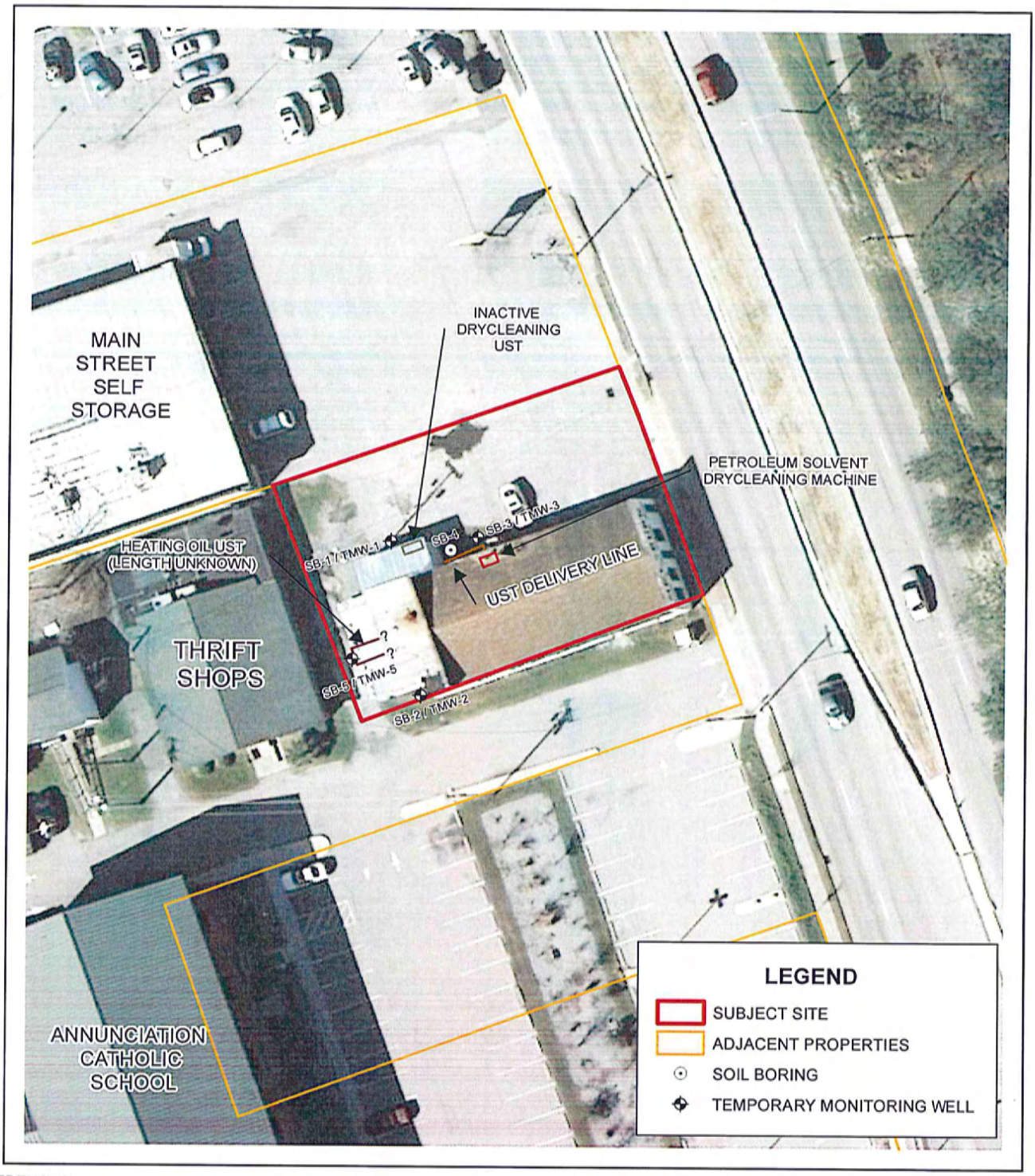
SCALE: 1:12,000

0 1,000 2,000 Feet

Mid Atlantic Engineering & Environmental Solutions

TOPOGRAPHIC SITE MAP
MEL-BURN LAUNDRY & DRY CLEANING
244 EAST MAIN STREET
HAVELOCK, NORTH CAROLINA

DRAWN BY:	DATE: JUNE 2015
DRAFT CHECK:	JOB NO: 000R2478.00 T04065
ENG. CHECK: DN	GIS NO: 04G-R2478.00 T04065-1.1
APPROVAL:	DWG NO: 1.1



REFERENCES:

1. PARCEL BOUNDARY AND ROAD DATA FROM CRAVEN COUNTY GIS.
2. 2012 AERIAL IMAGE (OBLIQUE) FROM NC ONEMAP.
3. MID-ATLANTIC FIELD NOTES.

APPROXIMATE SCALE: 1:600

0 50 100 150 Feet

Mid Atlantic
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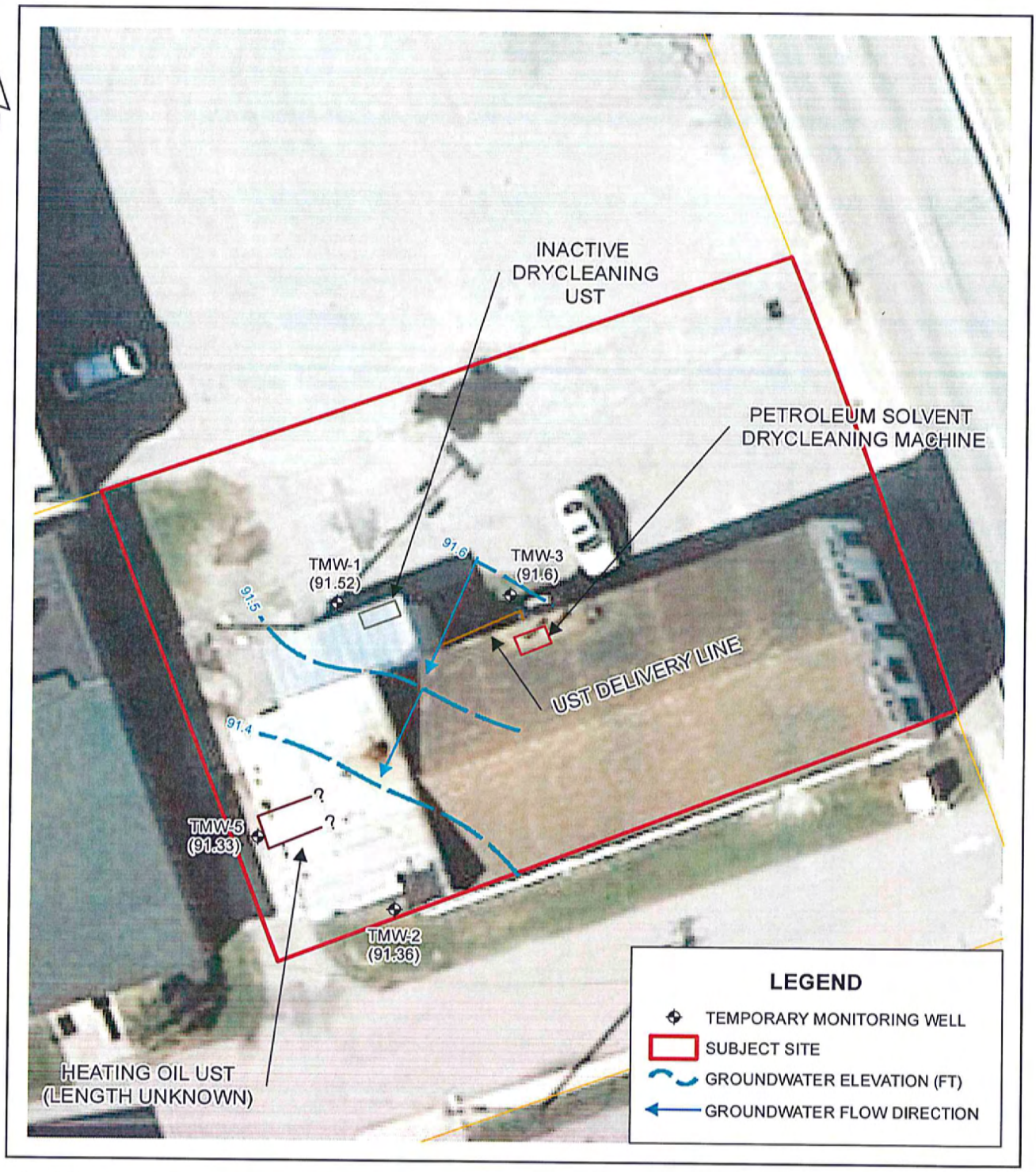
SITE MAP
MEL-BURN LAUNDRY & DRY CLEANING
244 EAST MAIN STREET
HAVELOCK, NORTH CAROLINA

DRAWN BY:	GH	DATE:	JUNE 2015
DRAFT CHECK:		JOB NO:	000R2478.00 T04065
ENG. CHECK:		GIS NO:	04G-R2478.00 T04065-1.2
APPROVAL:		DWG NO:	1.2



REFERENCES:
1. PARCEL BOUNDARY AND ROAD DATA FROM CRAVEN COUNTY GIS.
2. 2012 AERIAL IMAGE (OBLIQUE) FROM NC ONEMAP.
3. MID-ATLANTIC FIELD NOTES.

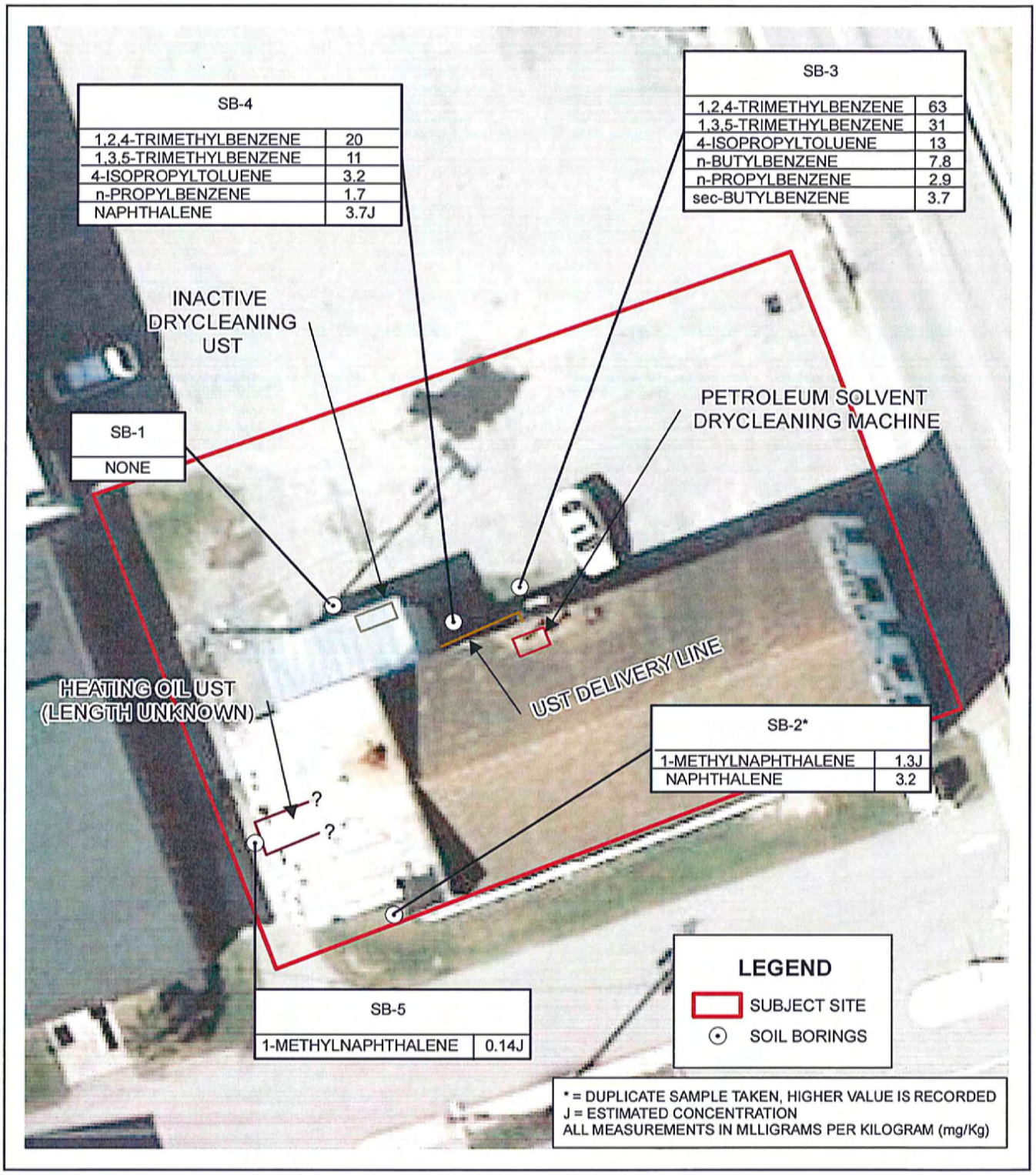
APPROXIMATE SCALE: 1:300

0 25 50 75 Feet

Mid Atlantic
Engineering & Environmental Solutions

GROUNDWATER TABLE ELEVATION CONTOUR MAP
1/29/2015
MEL-BURN LAUNDRY & DRY CLEANING
244 EAST MAIN STREET
HAVELOCK, NORTH CAROLINA

DRAWN BY:	DATE: JUNE 2015
DRAFT CHECK:	JOB NO: 000R2478.00 T04065
ENG. CHECK:	GIS NO: 04G-R2478.00 T04065-2.1
APPROVAL:	DWG NO: 2.1



REFERENCES:
1. PARCEL BOUNDARY AND ROAD DATA FROM CRAVEN COUNTY GIS.
2. 2012 AERIAL IMAGE (OBLIQUE) FROM NC ONEMAP.
3. MID-ATLANTIC FIELD NOTES.

APPROXIMATE SCALE: 1:300

0 25 50 75 Feet

Mid Atlantic
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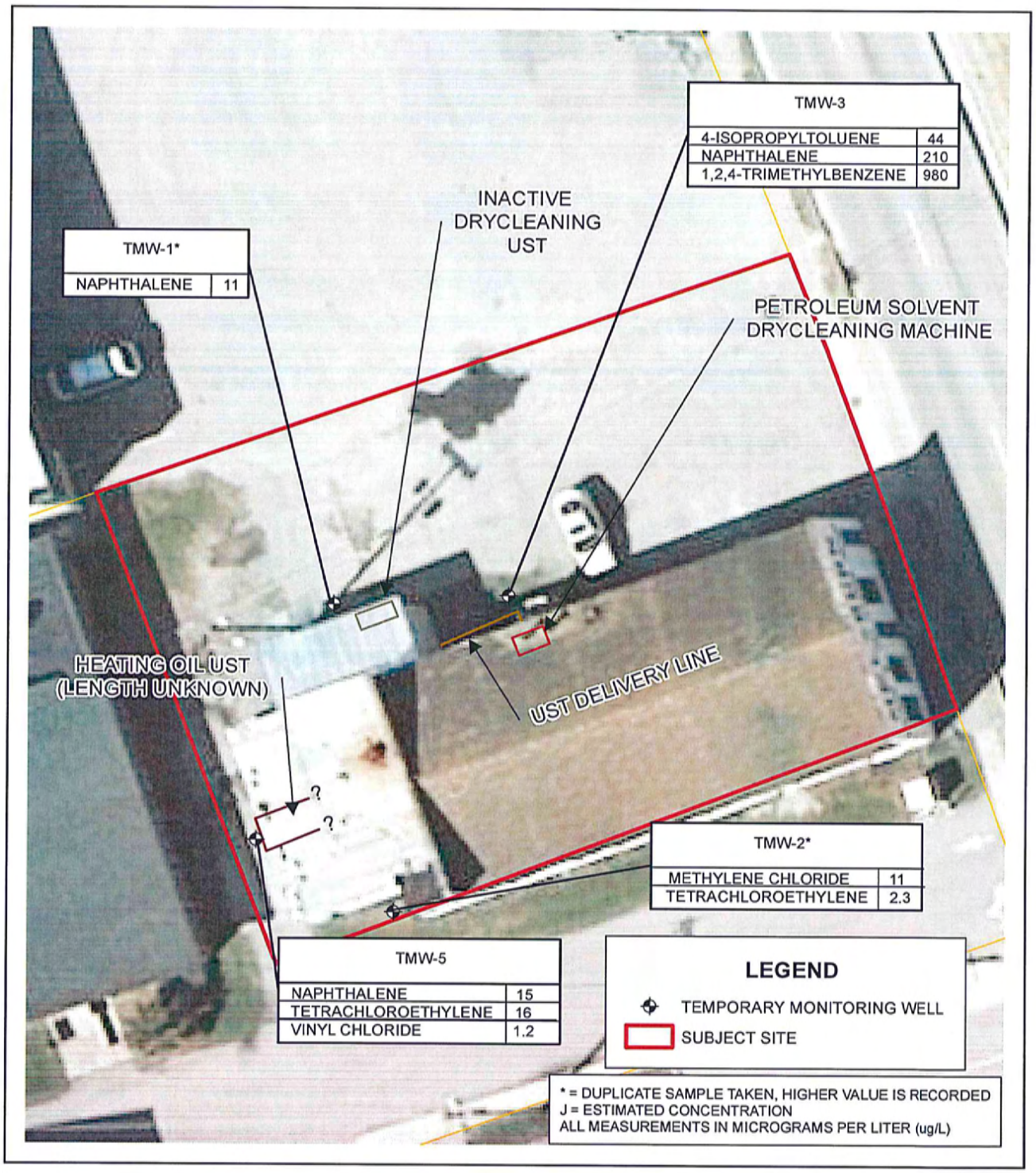
VOLATILE AND SEMI-VOLATILE ORGANIC COMPOUNDS ABOVE ACTION LEVELS (SOIL)
MEL-BURN LAUNDRY & DRY CLEANING
244 EAST MAIN STREET
HAVELOCK, NORTH CAROLINA

DRAWN BY:	DATE: JUNE 2015
DRAFT CHECK:	JOB NO: 000R2478.00 T04065
ENG. CHECK:	GIS NO: 04G-R2478.00 T04065-3.1
APPROVAL:	DWG NO: 3.1



REFERENCES:
1. PARCEL BOUNDARY AND ROAD DATA FROM CRAVEN COUNTY GIS.
2. 2012 AERIAL IMAGE (OBLIQUE) FROM NC ONEMAP.
3. MID-ATLANTIC FIELD NOTES.

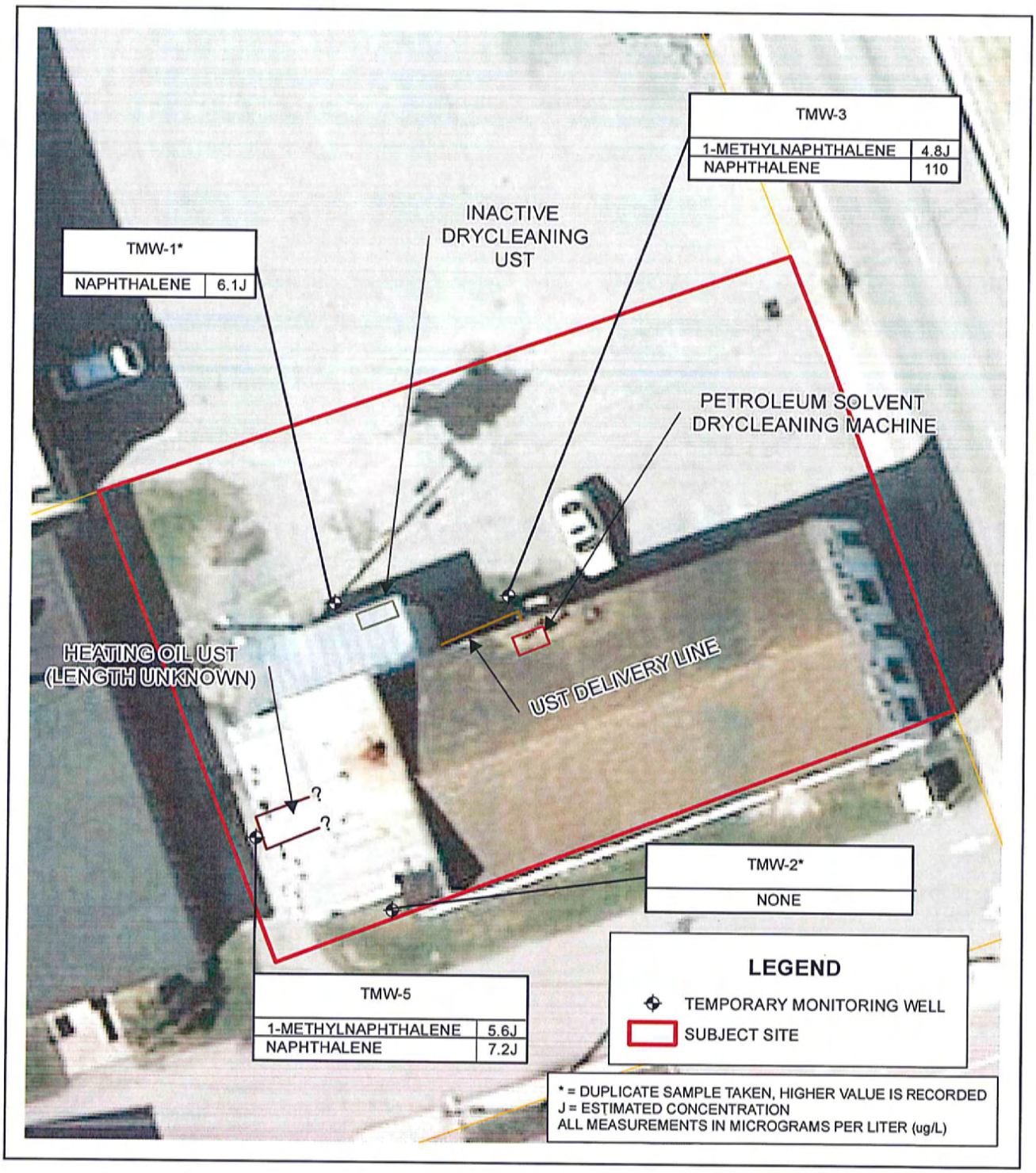
APPROXIMATE SCALE: 1:300

0 25 50 75 Feet

Mid Atlantic
Engineering & Environmental Solutions

VOLATILE ORGANIC COMPOUNDS (VOC's) IN GROUNDWATER ABOVE ACTION LEVELS (ug/L)
MEL-BURN LAUNDRY & DRY CLEANING
244 EAST MAIN STREET
HAVELOCK, NORTH CAROLINA

DRAWN BY:	DATE: JUNE 2015
DRAFT CHECK:	JOB NO: 000R2478.00 T04065
ENG. CHECK:	GIS NO: 04G-R2478.00 T04065-3.2
APPROVAL:	DWG NO: 3.2



REFERENCES:
1. PARCEL BOUNDARY AND ROAD DATA FROM CRAVEN COUNTY GIS.
2. 2012 AERIAL IMAGE (OBLIQUE) FROM NC ONEMAP.
3. MID-ATLANTIC FIELD NOTES.

APPROXIMATE SCALE: 1:300

0 25 50 75 Feet

Mid Atlantic
Engineering & Environmental Solutions

SEMI-VOC's IN GROUNDWATER
ABOVE ACTION LEVELS (ug/L)
MEL-BURN LAUNDRY & DRY CLEANING
244 EAST MAIN STREET
HAVELOCK, NORTH CAROLINA

DRAWN BY:	DATE: JUNE 2015
DRAFT CHECK:	JOB NO: 000R2478.00 T04065
ENG. CHECK:	GIS NO: 04G-R2478.00 T04065-3.3
APPROVAL:	DWG NO: 3.3

TABLES

TABLE 2.1
SUMMARY OF WELL CASING AND GROUNDWATER TABLE ELEVATIONS
LIMITED ENVIRONMENTAL SITE ASSESSMENT
MEL-BURN LAUNDRY & DRY CLEANING
244 EAST MAIN STREET
HAVELOCK, NORTH CAROLINA
MID-ATLANTIC JOB NO. 000R2478 TASK 4065

WELL ID	TOC ELEVATION (FEET ABOVE TEMPORARY BENCHMARK)	APPROXIMATE RELATIVE GROUND SURFACE ELEVATION (FEET)	DEPTH TO WATER, 1/29/2015 (FEET BELOW TOC)	SCREEN DEPTH (FEET BLS)	GROUNDWATER TABLE ELEVATION (1/29/2015)
TMW-1	99.73	100	8.21	5 - 15	91.52
TMW-2	100.25	100.5	8.89	5 - 15	91.36
TMW-3	99.65	100	8.05	5 - 15	91.60
TMW-5/TP	99.88	100	8.55	5 - 15	91.33

Notes:

BLS - Below Land Surface

MSL - Mean Sea Level

TOC - Top of Casing

The Top of Well Casings for the temporary wells are flush with the ground.
Top of Casing & Ground Surface Elevations are relative to a temporary benchmark = 100 feet above mean sea level established by Mid-Atlantic.
Temporary Benchmark - concrete at base of Power Pole, by wooden storage shed.

TABLE 3.1
CHEMICAL CONSTITUENTS DETECTED IN SOIL SAMPLES
LIMITED ENVIRONMENTAL SITE ASSESSMENT
MEL-BURN LAUNDRY & CLEANERS
244 EAST MAIN STREET
HAVELOCK, NORTH CAROLINA
MID-ATLANTIC JOB NO. 000R2478.00 TASK 4065

CHEMICAL CONSTITUENT	ANALYTICAL METHOD	CONCENTRATION (mg/Kg or PPM)						DWM MAXIMUM SOIL CONTAMINANT CONCENTRATIONS (mg/Kg), APRIL 2012		
		SB-1 (5'-7.5') 1/20/2015	SB-2 (5'-7.5') 1/20/2015	Duplicate #1 (of SB-2) (5'-7.5') 1/20/2015	SB-3 (5'-7.5') 1/20/2015	SB-4 (0'-2.5') 1/20/2015	SB-5 (2.5'-5') 1/20/2015	Residential	Industrial/ Commercial	Soil to Water
CONTAMINANT SOURCE		**Petroleum Solvent UST**	**Fuel Oil UST (~15 feet away)**		**Petroleum Cleaning Solvent UST and Delivery Line (Stained surface soil at SB-4)**		**Fuel Oil UST**			
OVA Reading (PPM)		784	0.62		3443	1706	75.54			
VOLATILE ORGANICS	8260B	8260B	8260B	8260B	8260B	8260B	8260B			
Sample Dilution (by Laboratory)	8260B	1x	1x	1x	1x	1x	1x			
Benzene	8260B	--	--	--	--	--	--	18	164	0.0056
Bromobenzene	8260B	--	--	--	--	0.036	--	NE	NE	NE
1,2,4-Trimethylbenzene	8260B	0.25 E	--	--	**63**	**20**	0.033	782	20,440	8.5
1,3,5-Trimethylbenzene	8260B	0.16	--	--	**31**	**11**	0.012	782	20,440	8.3
4-Isopropyltoluene	8260B	0.073	--	--	**13**	**3.2**	0.0046	100	4,000	0.12
Methyl Ethyl Ketone	8260B	--	--	--	--	--	--	9,385	245,280	16.00
Methylene Chloride	8260B	--	--	--	--	--	--	85	763	0.02
Naphthalene	8260B	0.0040 J	--	--	0.12 IH	0.045	0.043	313	8,176	0.16
n-Butylbenzene	8260B	0.082	--	--	**7.8**	0.13	0.0037 J	626	16,350	4.3
n-Propylbenzene	8260B	0.048	--	--	**2.9**	**1.7**	0.0018 J	626	16,350	1.7
sec-Butylbenzene	8260B	0.086	--	--	**3.7**	2.0	--	626	16,350	3.3
tert-Butylbenzene	8260B	0.0066	--	--	0.92	0.069	--	626	16,350	3.4
Ethylbenzene	8260B	0.015	--	--	0.15	0.15	--	1,560	40,000	4.9
Isopropylbenzene (cumene)	8260B	0.026	--	--	1.2	0.16	--	1,564	40,880	1.7
Tetrachloroethylene (PCE)	8260B	--	--	--	--	--	0.0051	1.1	10	0.0074
Trichloroethylene (TCE)	8260B	--	--	--	--	--	--	4.6	120	0.019
Toluene	8260B	--	--	--	--	--	--	1,200	32,000	4.3
Xylenes, total	8260B	0.069	--	--	1.262	1.6	0.0028 J	3129	81760	4.6
SEMI-VOLATILE ORGANICS	8270D	8270D	8270D	8270D	8270D	8270D	8270D			
Sample Dilution (by Laboratory)	8270D	1x	5x		1x	1x	1x			
Bis (2-ethylhexyl) phthalate	8270D	--	--	Not Tested	--	5.7	0.36 J	46	410	6.6
1-Methylnaphthalene	8270D	**<0.075**	**1.3 J**	Not Tested	**<0.081**	**<0.78**	**0.14 J**	20	100	0.004
2-Methylnaphthalene	8270D	--	2.3	Not Tested	--	--	0.19 J	63	1635	3.6
Naphthalene	8270D	--	**3.2**	Not Tested	--	**3.7 J**	--	313	8176	0.16
Pyrene	8270D	--	--	Not Tested	--	--	0.24 J	469	12264	270

mg/Kg = Milligrams per Kilogram
Bold = Concentration at or exceeds most stringent action level (STW MSCC) or minimum detection limit exceeds most stringent action level.
-- = Not Detected Above Laboratory Reporting Limit (Method Detection Limit)
E-= Estimated Concentration above the Calibration Range.
IH = Laboratory Report indicates result has a possible high bias (see lab report)

J = Detected, but below the Reporting Limit; Estimated Value
NE = Not Established
NT = Not Analyzed for this parameter
STW MSCC = Soil to Water Maximum Soil Contaminant Concentration

TABLE 3.2 (PAGE 1 OF 2)
GROUNDWATER SAMPLE LABORATORY RESULTS (UG/L)
LIMITED ENVIRONMENTAL SITE ASSESSMENT
MEL-BURN LAUNDRY & CLEANERS
244 EAST MAIN STREET
HAVELOCK, NORTH CAROLINA
MID-ATLANTIC JOB NO. 000R2478.00 TASK 4065

	CHEMICAL CONSTITUENT	CONCENTRATIONS (ug/L)						GROUNDWATER SCREENING LEVELS (ug/L), RESIDENTIAL VAPOR INTRUSION SCREENING TABLE (IHSB, June 2014)	GROUNDWATER SCREENING LEVELS (ug/L), NON-RESIDENTIAL VAPOR INTRUSION SCREENING TABLE (IHSB, June 2014)	NORTH CAROLINA GROUNDWATER STANDARD (ug/L)	GROSS CONTAMINATION LEVELS (GCL) FOR GROUNDWATER (ug/L) [UST Section, DWM]
		TMW-1	DUPLICATE (of TMW-1)	TMW-2 (SB-2 on Lab Report)	DUP-1 (of TMW-2)	TMW-3	TMW-5				
	POTENTIAL SITE CONTAMINANT SOURCE	INACTIVE PETROLEUM CLEANING SOLVENT UST		INACTIVE FUEL OIL UST (Approx. 15 feet away)		PETROLEUM CLEANING SOLVENT DELIVERY LINE, DRY-CLEAN MACHINE	INACTIVE HEATING OIL UST (Within 2-3 Ft.)				
	DATE SAMPLE COLLECTED	1/29/2015	1/29/2015	1/21/2015	1/21/2015	1/29/2015	1/29/2015				
VOCs	Acetone	--	--	--	--	--	4.6 J	4520000	19000000	6000	600000
VOCs	1,2-Dichloroethane	--	--	--	--	**<0.66**	--	22.4	97.8	0.4	400
VOCs	Cis-1,2-Dichloroethylene	1.5	1.3	--	--	--	1.7	Not Established	Not Established	70	70000
VOCs	Ethylbenzene	9.1	12	1.2	1.3	5.7	3.6	34.9	152	600	84500
VOCs	Isopropylbenzene (cumene)	7.3	9.0	2.0	2.0	33	4.7	177	745	70	25000
VOCs	4-Isopropyltoluene	13	16	0.62	0.67	**44**	3.1	Not Established	Not Established	25 (IMAC)	11700
VOCs	Methyl Ethyl Ketone (2-butanone)	--	--	--	--	--	15.0	448000	1880000	4000	4000000
VOCs	Methylene Chloride	--	--	**11**	3.3	--	--	942	3960	5	5000
VOCs	Naphthalene	**9.6**	**11**	0.66 J	0.69 J	**210**	**15**	34.8	146	6	6000
VOCs	n-Butylbenzene	8.7	9.8	1.1	1.5	26	2.1	Not Established	Not Established	70	6900
VOCs	n-Propylbenzene	11	14	2.8	2.9	44	4.3	486	2040	70	30000
VOCs	sec-Butylbenzene	12	13	2.0	2.0	28	3.1	Not Established	Not Established	70	8500
VOCs	tert-Butylbenzene	1.8	1.8			9.1	1.1	Not Established	Not Established	70	15000
VOCs	Toluene	2.2	2.4			--	0.7	3840	16100	600	260000
VOCs	Trichloroethylene (TCE)	--	--	--	--	--	--	1.04	4.35	3	3000
VOCs	Tetrachloroethylene (PCE)	--	--	**2.0**	**2.3**	**<0.98**	**16**	11.5	48.4	0.7	700
VOCs	1,2,4-Trimethylbenzene	130	140	18	19	**980**	40	5.8	24.4	400	28500
VOCs	1,3,5-Trimethylbenzene	57	67	12	12	380	6.8	Not Established	Not Established	400	28500
VOCs	Vinyl Chloride	**<0.097**	**<0.097**	**<0.097**	**<0.097**	**<0.97**	**1.2**	1.47	24.5	0.03	30
VOCs	Xylenes, Total	55	66	6.4	6.7	170	3.3	98.5	414	500	85500
SEMI-VOCs	1-Methylnaphthalene	**<2.4**	**<2.4**	**<2.4**	NT	**4.8 J**	**5.6 J**	Not Established	Not Established	1 (IMAC)	1000
SEMI-VOCs	2-Methylnaphthalene	--	--	--	NT	7.4 J	3.6 J	Not Established	Not Established	30	12500
SEMI-VOCs	3/4-Methylphenol	--	--	--	NT	--	15	Not Established	Not Established	40 (lower of 3- or 4-methylphenol)	Not Established
SEMI-VOCs	Naphthalene	**6.1 J**	4.3 J	--	NT	**110**	**7.2 J**	34.8	146	6	6000

Notes:

-- = Not detected at or above the laboratory method detection limit.

Bold = Indicates detected concentration exceeds the regulatory standard or detection limit was above the regulatory standard.

980 = Concentration > IHSB Residential and/or Non-Residential Groundwater Acceptable Vapor Intrusion Screening Levels (ug/L).

ug/L = micrograms per Liter

J = Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

GCL = Gross Contamination Level (used by the UST Section, Division of Waste Management)

IHSB = Inactive Hazardous Sites Branch

IMAC = Interim Maximum Allowable Concentration

SEMI-VOCs - Semi-volatile Organic Compounds

VOCs = Volatile Organic Compounds

TMW = Monitoring Well Identification (Permanent wells, originally temporary wells)

NT = Not Tested

TABLE 3.2 (PAGE 2 OF 2)
GROUNDWATER SAMPLE LABORATORY RESULTS (UG/L)
LIMITED ENVIRONMENTAL SITE ASSESSMENT
MEL-BURN LAUNDRY & CLEANERS
244 EAST MAIN STREET
HAVELOCK, NORTH CAROLINA
MID-ATLANTIC JOB NO. 000R2478.00 TASK 4065

CHEMICAL CONSTITUENT		CONCENTRATIONS (ug/L)			GROUNDWATER SCREENING LEVELS (ug/L), RESIDENTIAL VAPOR INTRUSION SCREENING TABLE (IHSB, June 2014)	GROUNDWATER SCREENING LEVELS (ug/L), NON-RESIDENTIAL VAPOR INTRUSION SCREENING TABLE (IHSB, June 2014)	NORTH CAROLINA GROUNDWATER STANDARD (ug/L)	GROSS CONTAMINATION LEVELS (GCL) FOR GROUNDWATER (ug/L) [UST Section, DWM]
		ERB	Trip Blank (1/21)	Trip Blank (1/29)				
POTENTIAL SITE CONTAMINANT SOURCE		Not Applicable						
DATE SAMPLE COLLECTED		1/29/2015	1/21/2015	1/29/2015				
VOCs	Acetone	--	--	--	4520000	19000000	6000	600000
	1,2-Dichloroethane	--	--	--	22.4	97.8	0.4	400
	Cis-1,2-Dichloroethylene	--	--	--	Not Established	Not Established	70	70000
	Ethylbenzene	--	--	--	34.9	152	600	84500
	Isopropylbenzene (cumene)	--	--	--	177	745	70	25000
	4-Isopropyltoluene	--	--	--	Not Established	Not Established	25 (IMAC)	11700
	Methyl Ethyl Ketone (2-butanone)	--	--	--	448000	1880000	4000	4000000
	Methylene Chloride	--	--	--	942	3960	5	5000
	Naphthalene	--	--	--	34.8	146	6	6000
	n-Butylbenzene	--	--	--	Not Established	Not Established	70	6900
	n-Propylbenzene	--	--	--	486	2040	70	30000
	sec-Butylbenzene	--	--	--	Not Established	Not Established	70	8500
	tert-Butylbenzene	--	--	--	Not Established	Not Established	70	15000
	Toluene	--	--	--	3840	16100	600	260000
	Trichloroethylene (TCE)	--	--	--	1.04	4.35	3	3000
	Tetrachloroethylene (PCE)	--	--	--	11.5	48.4	0.7	700
	1,2,4-Trimethylbenzene	--	--	--	5.8	24.4	400	28500
	1,3,5-Trimethylbenzene	--	--	--	Not Established	Not Established	400	28500
	Vinyl Chloride	--	--	--	1.47	24.5	0.03	30
	Xylenes, Total	--	--	--	98.5	414	500	85500
SEMI-VOCs	1-Methylnaphthalene	NT	NT	NT	Not Established	Not Established	1 (IMAC)	1000
	2-Methylnaphthalene	NT	NT	NT	Not Established	Not Established	30	12500
	3/4-Methylphenol	NT	NT	NT	Not Established	Not Established	40 (lower of 3- or 4-methylphenol)	Not Established
	Naphthalene	NT	NT	NT	34.8	146	6	6000

Notes:

-- = Not detected at or above the laboratory method detection limit.

Bold = Indicates detected concentration exceeds the regulatory standard or detection limit was above the regulatory standard.

980 = Concentration > IHSB Residential and/or Non-Residential Groundwater Acceptable Vapor Intrusion Screening Level (ug/L).

ug/L = micrograms per Liter

J = Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

GCL = Gross Contamination Level (used by the UST Section, Division of Waste Management)

IHSB = Inactive Hazardous Sites Branch

IMAC = Interim Maximum Allowable Concentration

SEMI-VOCs - Semi-volatile Organic Compounds

VOCs = Volatile Organic Compounds

TMW = Monitoring Well Identification (Permanent wells, originally temporary wells)

NT = Not Tested

TABLE 4.1
SOIL SAMPLE/SAMPLE DUPLICATE COMPARISON: "SB-2" AND "DUP-1"
MEL-BURN CLEANERS SITE
244 EAST MAIN STREET
HAVELOCK, NORTH CAROLINA
MID-ATLANTIC JOB NO. 000R2478 TASK 4065

PRIMARY SAMPLE:			SB-2			DUPLICATE SAMPLE:			Dup-1			5x the Higher RL. [calculate RPD if both >5x]	AVG. of Results for RPD Calc.	Absolute Difference between Results	2x the Higher RL (if applicable); Acceptable Limit	2x the Acceptable Limit	% RPD (Note 1) [((x1-x2)/AVG) * 100]	Variability (Note 1) (Based on %RPD)
SAMPLING DATE:			1/20/2015			SAMPLING DATE:			1/20/2015									
Parameter	Method	Units	Result	Qualif	RL	Parameter	Method	Units	Result	Qualif	RL							
1,1,1,2-Tetrachloroethane	8260B	mg/kg dry		U	0.0046	1,1,1,2-Tetrachloroethane	8260B	mg/kg dry		U	0.0043							
1,1,1-Trichloroethane	8260B	mg/kg dry		U	0.0046	1,1,1-Trichloroethane	8260B	mg/kg dry		U	0.0043						Note: For the 8260B tests, the results were all below the RL for the primary sample and duplicate sample. Therefore, precision could not be calculated.	
1,1,2,2-Tetrachloroethane	8260B	mg/kg dry		U	0.0046	1,1,2,2-Tetrachloroethane	8260B	mg/kg dry		U	0.0043							
1,1,2-Trichloroethane	8260B	mg/kg dry		U	0.0046	1,1,2-Trichloroethane	8260B	mg/kg dry		U	0.0043							
1,1-Dichloroethane	8260B	mg/kg dry		U	0.0046	1,1-Dichloroethane	8260B	mg/kg dry		U	0.0043							
1,1-Dichloroethylene	8260B	mg/kg dry		U	0.0046	1,1-Dichloroethylene	8260B	mg/kg dry		U	0.0043							
1,1-Dichloropropylene	8260B	mg/kg dry		U	0.0046	1,1-Dichloropropylene	8260B	mg/kg dry		U	0.0043							
1,2,3-Trichlorobenzene	8260B	mg/kg dry		U	0.0046	1,2,3-Trichlorobenzene	8260B	mg/kg dry		U	0.0043							
1,2,3-Trichloropropane	8260B	mg/kg dry		U	0.0046	1,2,3-Trichloropropane	8260B	mg/kg dry		U	0.0043							
1,2,4-Trichlorobenzene	8260B	mg/kg dry		U	0.0046	1,2,4-Trichlorobenzene	8260B	mg/kg dry		U	0.0043							
1,2,4-Trimethylbenzene	8260B	mg/kg dry		U	0.0046	1,2,4-Trimethylbenzene	8260B	mg/kg dry		U	0.0043							
1,2-Dibromoethane	8260B	mg/kg dry		U	0.0046	1,2-Dibromoethane	8260B	mg/kg dry		U	0.0043							
1,2-Dichlorobenzene	8260B	mg/kg dry		U	0.0046	1,2-Dichlorobenzene	8260B	mg/kg dry		U	0.0043							
1,2-Dichloroethane	8260B	mg/kg dry		U	0.0046	1,2-Dichloroethane	8260B	mg/kg dry		U	0.0043							
1,2-Dichloropropane	8260B	mg/kg dry		U	0.0046	1,2-Dichloropropane	8260B	mg/kg dry		U	0.0043							
1,3,5-Trimethylbenzene	8260B	mg/kg dry		U	0.0046	1,3,5-Trimethylbenzene	8260B	mg/kg dry		U	0.0043							
1,3-Dichlorobenzene	8260B	mg/kg dry		U	0.0046	1,3-Dichlorobenzene	8260B	mg/kg dry		U	0.0043							
1,3-Dichloropropane	8260B	mg/kg dry		U	0.0046	1,3-Dichloropropane	8260B	mg/kg dry		U	0.0043							
1,4-Dichlorobenzene	8260B	mg/kg dry		U	0.0046	1,4-Dichlorobenzene	8260B	mg/kg dry		U	0.0043							
2,2-Dichloropropane	8260B	mg/kg dry		U	0.0046	2,2-Dichloropropane	8260B	mg/kg dry		U	0.0043							
2-Chlorotoluene	8260B	mg/kg dry		U	0.0046	2-Chlorotoluene	8260B	mg/kg dry		U	0.0043							
4-Chlorotoluene	8260B	mg/kg dry		U	0.0046	4-Chlorotoluene	8260B	mg/kg dry		U	0.0043							
4-Isopropyltoluene	8260B	mg/kg dry		U	0.0046	4-Isopropyltoluene	8260B	mg/kg dry		U	0.0043							
Acetone	8260B	mg/kg dry	0.028	J	0.046	Acetone	8260B	mg/kg dry		U	0.043							
Benzene	8260B	mg/kg dry		U	0.0028	Benzene	8260B	mg/kg dry		U	0.0026							
Bromobenzene	8260B	mg/kg dry		U	0.0046	Bromobenzene	8260B	mg/kg dry		U	0.0043							
Bromochloromethane	8260B	mg/kg dry		U	0.0046	Bromochloromethane	8260B	mg/kg dry		U	0.0043							
Bromodichloromethane	8260B	mg/kg dry		U	0.0046	Bromodichloromethane	8260B	mg/kg dry		U	0.0043							
Bromoform	8260B	mg/kg dry		U	0.0046	Bromoform	8260B	mg/kg dry		U	0.0043							
Bromomethane	8260B	mg/kg dry		U	0.0092	Bromomethane	8260B	mg/kg dry		U	0.0087							
Carbon Tetrachloride	8260B	mg/kg dry		U	0.0046	Carbon Tetrachloride	8260B	mg/kg dry		U	0.0043							
Chlorobenzene	8260B	mg/kg dry		U	0.0046	Chlorobenzene	8260B	mg/kg dry		U	0.0043							
Chloroethane	8260B	mg/kg dry		U	0.0092	Chloroethane	8260B	mg/kg dry		U	0.0087							
Chloroform	8260B	mg/kg dry		U	0.0046	Chloroform	8260B	mg/kg dry		U	0.0043							
Chloromethane	8260B	mg/kg dry		U	0.0046	Chloromethane	8260B	mg/kg dry		U	0.0043							
cis-1,2-Dichloroethylene	8260B	mg/kg dry		U	0.0046	cis-1,2-Dichloroethylene	8260B	mg/kg dry		U	0.0043							
cis-1,3-Dichloropropylene	8260B	mg/kg dry		U	0.0046	cis-1,3-Dichloropropylene	8260B	mg/kg dry		U	0.0043							
Dibromochloromethane	8260B	mg/kg dry		U	0.0046	Dibromochloromethane	8260B	mg/kg dry		U	0.0043							
Dichlorodifluoromethane	8260B	mg/kg dry		U	0.0046	Dichlorodifluoromethane	8260B	mg/kg dry		U	0.0043							
Ethylbenzene	8260B	mg/kg dry		U	0.0046	Ethylbenzene	8260B	mg/kg dry		U	0.0043							
Isopropyl Ether	8260B	mg/kg dry		U	0.0046	Isopropyl Ether	8260B	mg/kg dry		U	0.0043							
Isopropylbenzene (Cumene)	8260B	mg/kg dry		U	0.0046	Isopropylbenzene (Cumene)	8260B	mg/kg dry		U	0.0043							
m,p-Xylenes	8260B	mg/kg dry		U	0.0092	m,p-Xylenes	8260B	mg/kg dry		U	0.0087							
Methyl Butyl Ketone (2-Hexanone)	8260B	mg/kg dry		U	0.046	Methyl Butyl Ketone (2-Hexanone)	8260B	mg/kg dry		U	0.043							
Methyl Ethyl Ketone (2-Butanone)	8260B	mg/kg dry		U	0.092	Methyl Ethyl Ketone (2-Butanone)	8260B	mg/kg dry		U	0.087							
Methyl Isobutyl Ketone	8260B	mg/kg dry		U	0.046	Methyl Isobutyl Ketone	8260B	mg/kg dry		U	0.043							
Methylene Chloride	8260B	mg/kg dry	0.0023	J	0.0046	Methylene Chloride	8260B	mg/kg dry	0.003	J	0.0043							
Methyl-tert-Butyl Ether	8260B	mg/kg dry		U	0.0092	Methyl-tert-Butyl Ether	8260B	mg/kg dry		U	0.0087							
Naphthalene	8260B	mg/kg dry		U	0.0092	Naphthalene	8260B	mg/kg dry		U	0.0087							
n-Butylbenzene	8260B	mg/kg dry		U	0.0046	n-Butylbenzene	8260B	mg/kg dry		U	0.0043							
n-Propylbenzene	8260B	mg/kg dry		U	0.0046	n-Propylbenzene	8260B	mg/kg dry		U	0.0043							

PRIMARY SAMPLE:			SB-2			DUPLICATE SAMPLE:			Dup-1			5x the Higher RL. [calculate RPD if both >5x]	AVG. of Results for RPD Calc.	Absolute Difference between Results	2x the Higher RL (if applicable); Acceptable Limit	2x the Acceptable Limit	% RPD (Note 1) [((x1-x2)/AVG) * 100]	Variability (Note 1) (Based on %RPD)
SAMPLING DATE:			1/20/2015			SAMPLING DATE:			1/20/2015									
Parameter	Method	Units	Result	Qualif	RL	Parameter	Method	Units	Result	Qualif	RL							
o-Xylene	8260B	mg/kg dry		U	0.0046	o-Xylene	8260B	mg/kg dry		U	0.0043							
sec-Butylbenzene	8260B	mg/kg dry		U	0.0046	sec-Butylbenzene	8260B	mg/kg dry		U	0.0043							
Styrene	8260B	mg/kg dry		U	0.0046	Styrene	8260B	mg/kg dry		U	0.0043							
tert-Butylbenzene	8260B	mg/kg dry		U	0.0046	tert-Butylbenzene	8260B	mg/kg dry		U	0.0043							
Tetrachloroethylene	8260B	mg/kg dry		U	0.0046	Tetrachloroethylene	8260B	mg/kg dry		U	0.0043							
Toluene	8260B	mg/kg dry		U	0.0046	Toluene	8260B	mg/kg dry		U	0.0043							
trans-1,2-Dichloroethylene	8260B	mg/kg dry		U	0.0046	trans-1,2-Dichloroethylene	8260B	mg/kg dry		U	0.0043							
trans-1,3-Dichloropropylene	8260B	mg/kg dry		U	0.0046	trans-1,3-Dichloropropylene	8260B	mg/kg dry		U	0.0043							
Trichloroethylene	8260B	mg/kg dry		U	0.0046	Trichloroethylene	8260B	mg/kg dry		U	0.0043							
Trichlorofluoromethane	8260B	mg/kg dry		U	0.0046	Trichlorofluoromethane	8260B	mg/kg dry		U	0.0043							
Vinyl acetate	8260B	mg/kg dry		U	0.023	Vinyl acetate	8260B	mg/kg dry		U	0.022							
Vinyl chloride	8260B	mg/kg dry		U	0.0046	Vinyl chloride	8260B	mg/kg dry		U	0.0043							
Xylenes, total	8260B	mg/kg dry		U	0.014	Xylenes, total	8260B	mg/kg dry		U	0.013							

Note 1	= The relative percent difference (RPD) and percent ratio were calculated for each pair (see formulas in column headings). Variability was evaluated based on % RPD: Good/Acceptable (<35%), Slightly High (>35% but <50%) and High (%50).

Bold Concentrations	= Analyte detected in both primary and duplicate samples. Comparison Shown in Table.
D	= RPD value outside of the control limits.
Blank Cells	= Below Reporting Limits or Non-detect.
J	= Detected, but below the Reporting Limit; therefore, result is an estimated concentration
U	= Constituent not detected above the method detection limit (MDL), which is lower than the reporting limit (RL).

TABLE 4.2A
GROUNDWATER SAMPLE/SAMPLE DUPLICATE COMPARISON: "SB-2" AND "DUP-1"
MEL-BURN CLEANERS SITE
244 EAST MAIN STREET
HAVELOCK, NORTH CAROLINA
MID-ATLANTIC JOB NO. 000R2478.00 TASK 4065

PRIMARY SAMPLE:			SB-2 [Note TMW-2]			DUPLICATE SAMPLE:			Dup-1			5x the Higher RL. [calculate RPD if both >5x]	AVG. of Results for RPD Calc.	Absolute Difference between Results	% RPD (Note 1) [(x1-x2)/AVG) * 100]	Variability (Note 1) (Based on %RPD)
SAMPLING DATE:			1/20/2015			SAMPLING DATE:			1/20/2015							
Parameter	Method	Units	Result	Qualif	RL	Parameter	Method	Units	Result	Qualif	RL					
1,1,1,2-Tetrachloroethane	8260B	ug/L		U	0.5	1,1,1,2-Tetrachloroethane	8260B	ug/L		U	0.5					
1,1,1-Trichloroethane	8260B	ug/L		U	0.5	1,1,1-Trichloroethane	8260B	ug/L		U	0.5					
1,1,2,2-Tetrachloroethane	8260B	ug/L		U	0.5	1,1,2,2-Tetrachloroethane	8260B	ug/L		U	0.5					
1,1,2-Trichloroethane	8260B	ug/L		U	0.5	1,1,2-Trichloroethane	8260B	ug/L		U	0.5					
1,1-Dichloroethane	8260B	ug/L		U	0.5	1,1-Dichloroethane	8260B	ug/L		U	0.5					
1,1-Dichloroethylene	8260B	ug/L		U	0.5	1,1-Dichloroethylene	8260B	ug/L		U	0.5					
1,1-Dichloropropylene	8260B	ug/L		U	0.5	1,1-Dichloropropylene	8260B	ug/L		U	0.5					
1,2,3-Trichlorobenzene	8260B	ug/L		U	2	1,2,3-Trichlorobenzene	8260B	ug/L		U	2					
1,2,3-Trichloropropane	8260B	ug/L		U	1	1,2,3-Trichloropropane	8260B	ug/L		U	1					
1,2,4-Trichlorobenzene	8260B	ug/L		U	1	1,2,4-Trichlorobenzene	8260B	ug/L		U	1					
1,2,4-Trimethylbenzene	8260B	ug/L	18		0.5	1,2,4-Trimethylbenzene	8260B	ug/L	19		0.5	2.5	18.5	1	5.4	Good/Acceptable
1,2-Dibromo-3-chloropropane	8260B	ug/L		U	2	1,2-Dibromo-3-chloropropane	8260B	ug/L		U	2					
1,2-Dibromoethane	8260B	ug/L		U	0.5	1,2-Dibromoethane	8260B	ug/L		U	0.5					
1,2-Dichlorobenzene	8260B	ug/L		U	0.5	1,2-Dichlorobenzene	8260B	ug/L		U	0.5					
1,2-Dichloroethane	8260B	ug/L		U	0.5	1,2-Dichloroethane	8260B	ug/L		U	0.5					
1,2-Dichloropropane	8260B	ug/L		U	0.5	1,2-Dichloropropane	8260B	ug/L		U	0.5					
1,3,5-Trimethylbenzene	8260B	ug/L	12		0.5	1,3,5-Trimethylbenzene	8260B	ug/L	12		0.5	2.5	12	0	0.0	Good/Acceptable
1,3-Dichlorobenzene	8260B	ug/L		U	0.5	1,3-Dichlorobenzene	8260B	ug/L		U	0.5					
1,3-Dichloropropane	8260B	ug/L		U	0.5	1,3-Dichloropropane	8260B	ug/L		U	0.5					
1,4-Dichlorobenzene	8260B	ug/L		U	0.5	1,4-Dichlorobenzene	8260B	ug/L		U	0.5					
2,2-Dichloropropane	8260B	ug/L		U	2	2,2-Dichloropropane	8260B	ug/L		U	2					
2-Chloroethyl Vinyl Ether	8260B	ug/L		U	5	2-Chloroethyl Vinyl Ether	8260B	ug/L		U	5					
2-Chlorotoluene	8260B	ug/L		U	0.5	2-Chlorotoluene	8260B	ug/L		U	0.5					
4-Chlorotoluene	8260B	ug/L		U	0.5	4-Chlorotoluene	8260B	ug/L		U	0.5					
4-Isopropyltoluene	8260B	ug/L	0.62		0.5	4-Isopropyltoluene	8260B	ug/L	0.67		0.5	2.5		0.05	NA, <5x RL	Good/Acceptable
Acetone	8260B	ug/L		U	5	Acetone	8260B	ug/L		U	5					
Acrolein	8260B	ug/L		U	20	Acrolein	8260B	ug/L		U	20					
Acrylonitrile	8260B	ug/L		U	20	Acrylonitrile	8260B	ug/L		U	20					
Benzene	8260B	ug/L		U	0.5	Benzene	8260B	ug/L		U	0.5					
Bromobenzene	8260B	ug/L		U	0.5	Bromobenzene	8260B	ug/L		U	0.5					
Bromochloromethane	8260B	ug/L		U	0.5	Bromochloromethane	8260B	ug/L		U	0.5					
Bromodichloromethane	8260B	ug/L		U	0.5	Bromodichloromethane	8260B	ug/L		U	0.5					
Bromoform	8260B	ug/L		U	1	Bromoform	8260B	ug/L		U	1					
Bromomethane	8260B	ug/L		U	1	Bromomethane	8260B	ug/L		U	1					
Carbon disulfide	8260B	ug/L		U	5	Carbon disulfide	8260B	ug/L		U	5					
Carbon Tetrachloride	8260B	ug/L		U	0.5	Carbon Tetrachloride	8260B	ug/L		U	0.5					
Chlorobenzene	8260B	ug/L		U	0.5	Chlorobenzene	8260B	ug/L		U	0.5					
Chloroethane	8260B	ug/L		U	0.5	Chloroethane	8260B	ug/L		U	0.5					
Chloroform	8260B	ug/L		U	0.5	Chloroform	8260B	ug/L		U	0.5					
Chloromethane	8260B	ug/L		U	0.5	Chloromethane	8260B	ug/L		U	0.5					
cis-1,2-Dichloroethylene	8260B	ug/L		U	0.5	cis-1,2-Dichloroethylene	8260B	ug/L			0.5					
cis-1,3-Dichloropropylene	8260B	ug/L		U	0.5	cis-1,3-Dichloropropylene	8260B	ug/L		U	0.5					
Dibromochloromethane	8260B	ug/L		U	0.5	Dibromochloromethane	8260B	ug/L		U	0.5					
Dibromomethane	8260B	ug/L		U	0.5	Dibromomethane	8260B	ug/L		U	0.5					
Dichlorodifluoromethane	8260B	ug/L		U	1	Dichlorodifluoromethane	8260B	ug/L		U	1					
Ethylbenzene	8260B	ug/L	1.2		0.5	Ethylbenzene	8260B	ug/L	1.3		0.5	2.5		0.1	NA, <5x RL	Good/Acceptable
Hexachlorobutadiene	8260B	ug/L		U	2	Hexachlorobutadiene	8260B	ug/L		U	2					
Isopropyl Ether	8260B	ug/L		U	0.5	Isopropyl Ether	8260B	ug/L		U	0.5					
Isopropylbenzene (Cumene)	8260B	ug/L	2.0		0.5	Isopropylbenzene (Cumene)	8260B	ug/L	2.0		0.5	2.5		0	NA, <5x RL	Good/Acceptable
m,p-Xylenes	8260B	ug/L	2.5		1	m,p-Xylenes	8260B	ug/L	2.6		1	5		0.1	NA, <5x RL	Good/Acceptable

PRIMARY SAMPLE:			SB-2 [Note TMW-2]			DUPLICATE SAMPLE:			Dup-1			5x the Higher RL. [calculate RPD if both >5x]	AVG. of Results for RPD Calc.	Absolute Difference between Results	% RPD (Note 1) [((x1-x2)/AVG) * 100]	Variability (Note 1) (Based on %RPD)
SAMPLING DATE:			1/20/2015			SAMPLING DATE:			1/20/2015							
Parameter	Method	Units	Result	Qualif	RL	Parameter	Method	Units	Result	Qualif	RL					
Methyl Butyl Ketone (2-Hexanone)	8260B	ug/L		U	5	Methyl Butyl Ketone (2-Hexanone)	8260B	ug/L		U	5					
Methyl Ethyl Ketone (2-Butanone)	8260B	ug/L		U	5	Methyl Ethyl Ketone (2-Butanone)	8260B	ug/L		U	5					
Methyl Isobutyl Ketone	8260B	ug/L		U	5	Methyl Isobutyl Ketone	8260B	ug/L		U	5					
Methylene Chloride	8260B	ug/L	11		1	Methylene Chloride	8260B	ug/L	3.3		1	5		7.7	NA, <5x RL	**High**
Methyl-tert-Butyl Ether	8260B	ug/L		U	0.5	Methyl-tert-Butyl Ether	8260B	ug/L		U	0.5					NC - J Value
Naphthalene	8260B	ug/L	0.66	J	1	Naphthalene	8260B	ug/L	0.69	J	1					
n-Butylbenzene	8260B	ug/L	1.1		1	n-Butylbenzene	8260B	ug/L	1.5		1	5		0.4	NA, <5x RL	Good/Acceptable
n-Propylbenzene	8260B	ug/L	2.8		0.5	n-Propylbenzene	8260B	ug/L	2.9		0.5	2.5	2.85	0.1	3.5	Good/Acceptable
o-Xylene	8260B	ug/L	3.9		0.5	o-Xylene	8260B	ug/L	4.1		0.5	2.5	4	0.2	5.0	Good/Acceptable
sec-Butylbenzene	8260B	ug/L	2.0		0.5	sec-Butylbenzene	8260B	ug/L	2		0.5	2.5		0	NA, <5x RL	Good/Acceptable
Styrene	8260B	ug/L		U	0.5	Styrene	8260B	ug/L		U	0.5					
tert-Butylbenzene	8260B	ug/L		U	0.5	tert-Butylbenzene	8260B	ug/L		U	0.5					
Tetrachloroethylene	8260B	ug/L	2.0		0.5	Tetrachloroethylene	8260B	ug/L	2.3		0.5	2.5		0.3	NA, <5x RL	Good/Acceptable
Toluene	8260B	ug/L		U	0.5	Toluene	8260B	ug/L		U	0.5					
trans-1,2-Dichloroethylene	8260B	ug/L		U	0.5	trans-1,2-Dichloroethylene	8260B	ug/L		U	0.5					
trans-1,3-Dichloropropylene	8260B	ug/L		U	0.5	trans-1,3-Dichloropropylene	8260B	ug/L		U	0.5					
Trichloroethylene	8260B	ug/L		U	0.5	Trichloroethylene	8260B	ug/L		U	0.5					
Trichlorofluoromethane	8260B	ug/L		U	0.5	Trichlorofluoromethane	8260B	ug/L		U	0.5					
Vinyl acetate	8260B	ug/L		U	2	Vinyl acetate	8260B	ug/L		U	2					
Vinyl chloride	8260B	ug/L		U	0.5	Vinyl chloride	8260B	ug/L		U	0.5					
Semi-Volatile Organic Compounds	8270D	Tested. But Duplicate was not. Therefore, No comparison can be made.														

Note 1	= 1. Absolute difference in the result pairs were used if the results were less than 5x the higher of the two reporting limites (RL). If the difference was less than 2x the reporting limit then variability is "acceptable". Differences between the 2x limit and 4x the reporting limit are considered "slightly high". Differences between 4x and 5x the RL are considered "high" variability for the sample pairs. = 2: If the results were greater than 5x the RL, the relative percent difference (RPD) was calculated for each pair (see formulas in column headings). Variability was evaluated based on % RPD: Good/Acceptable (<35%), Slightly High (>35% but <50%) and High (%50).
Bold Concentrations	= Analyte detected in both primary and duplicate samples. Comparison Shown in Table.
D	= RPD value outside of the control limits.
Blank Cells	= Consituent not detected, or below the method detection limit (MDL).
J	= Detected, but below the Reporting Limit; therefore, result is an estimated concentration
U	= Constituent not detected above the method detection limit (MDL), which is lower than the reporting limit (RL).

TABLE 4.2B
GROUNDWATER SAMPLE/SAMPLE DUPLICATE COMPARISON: "TMW-1" AND "DUPLICATE"
MEL-BURN CLEANERS SITE
244 EAST MAIN STREET
HAVELOCK, NORTH CAROLINA
MID-ATLANTIC JOB NO. 000R2478.00 TASK 4065

PRIMARY SAMPLE:			TMW-1			DUPLICATE SAMPLE:			Duplicate			5x the Higher RL. [calculate RPD if both >5x]	AVG. of Results for RPD Calc.	Absolute Difference between Results	% RPD (Note 1) [((x1-x2)/AVG) * 100]	Variability (Note 1) (Based on %RPD)
SAMPLING DATE:			1/29/2015			SAMPLING DATE:			1/29/2015							
Parameter	Method	Units	Result	Qualif	RL	Parameter	Method	Units	Result	Qualif	RL					
1,1,1,2-Tetrachloroethane	8260B	ug/L		U	0.5	1,1,1,2-Tetrachloroethane	8260B	ug/L		U	0.5					
1,1,1-Trichloroethane	8260B	ug/L		U	0.5	1,1,1-Trichloroethane	8260B	ug/L		U	0.5					
1,1,2,2-Tetrachloroethane	8260B	ug/L		U	0.5	1,1,2,2-Tetrachloroethane	8260B	ug/L		U	0.5					
1,1,2-Trichloroethane	8260B	ug/L		U	0.5	1,1,2-Trichloroethane	8260B	ug/L		U	0.5					
1,1-Dichloroethane	8260B	ug/L		U	0.5	1,1-Dichloroethane	8260B	ug/L		U	0.5					
1,1-Dichloroethylene	8260B	ug/L		U	0.5	1,1-Dichloroethylene	8260B	ug/L		U	0.5					
1,1-Dichloropropylene	8260B	ug/L		U	0.5	1,1-Dichloropropylene	8260B	ug/L		U	0.5					
1,2,3-Trichlorobenzene	8260B	ug/L		U	2	1,2,3-Trichlorobenzene	8260B	ug/L		U	2					
1,2,3-Trichloropropane	8260B	ug/L		U	1	1,2,3-Trichloropropane	8260B	ug/L		U	1					
1,2,4-Trichlorobenzene	8260B	ug/L		U	1	1,2,4-Trichlorobenzene	8260B	ug/L		U	1					
1,2,4-Trimethylbenzene	8260B	ug/L	130		5	1,2,4-Trimethylbenzene	8260B	ug/L	140		5	25	135	10	7.4	Good/Acceptable
1,2-Dibromo-3-chloropropane	8260B	ug/L		U	2	1,2-Dibromo-3-chloropropane	8260B	ug/L		U	2					
1,2-Dibromoethane	8260B	ug/L		U	0.5	1,2-Dibromoethane	8260B	ug/L		U	0.5					
1,2-Dichlorobenzene	8260B	ug/L		U	0.5	1,2-Dichlorobenzene	8260B	ug/L		U	0.5					
1,2-Dichloroethane	8260B	ug/L		U	0.5	1,2-Dichloroethane	8260B	ug/L		U	0.5					
1,2-Dichloropropane	8260B	ug/L		U	0.5	1,2-Dichloropropane	8260B	ug/L		U	0.5					
1,3,5-Trimethylbenzene	8260B	ug/L	57		0.5	1,3,5-Trimethylbenzene	8260B	ug/L	67		0.5	2.5	62	10	16.1	Good/Acceptable
1,3-Dichlorobenzene	8260B	ug/L		U	0.5	1,3-Dichlorobenzene	8260B	ug/L		U	0.5					
1,3-Dichloropropane	8260B	ug/L		U	0.5	1,3-Dichloropropane	8260B	ug/L		U	0.5					
1,4-Dichlorobenzene	8260B	ug/L		U	0.5	1,4-Dichlorobenzene	8260B	ug/L		U	0.5					
2,2-Dichloropropane	8260B	ug/L		U	2	2,2-Dichloropropane	8260B	ug/L		U	2					
2-Chloroethyl Vinyl Ether	8260B	ug/L		U	5	2-Chloroethyl Vinyl Ether	8260B	ug/L		U	5					
2-Chlorotoluene	8260B	ug/L		U	0.5	2-Chlorotoluene	8260B	ug/L		U	0.5					
4-Chlorotoluene	8260B	ug/L		U	0.5	4-Chlorotoluene	8260B	ug/L		U	0.5					
4-Isopropyltoluene	8260B	ug/L	13		0.5	4-Isopropyltoluene	8260B	ug/L	16		0.5	2.5	14.5	3	20.7	Good/Acceptable
Acetone	8260B	ug/L		U	5	Acetone	8260B	ug/L		U	5					
Acrolein	8260B	ug/L		U	20	Acrolein	8260B	ug/L		U	20					
Acrylonitrile	8260B	ug/L		U	20	Acrylonitrile	8260B	ug/L		U	20					
Benzene	8260B	ug/L		U	0.5	Benzene	8260B	ug/L		U	0.5					
Bromobenzene	8260B	ug/L		U	0.5	Bromobenzene	8260B	ug/L		U	0.5					
Bromochloromethane	8260B	ug/L		U	0.5	Bromochloromethane	8260B	ug/L		U	0.5					
Bromodichloromethane	8260B	ug/L		U	0.5	Bromodichloromethane	8260B	ug/L		U	0.5					
Bromoform	8260B	ug/L		U	1	Bromoform	8260B	ug/L		U	1					
Bromomethane	8260B	ug/L		U	1	Bromomethane	8260B	ug/L		U	1					
Carbon disulfide	8260B	ug/L		U	5	Carbon disulfide	8260B	ug/L		U	5					
Carbon Tetrachloride	8260B	ug/L		U	0.5	Carbon Tetrachloride	8260B	ug/L		U	0.5					
Chlorobenzene	8260B	ug/L		U	0.5	Chlorobenzene	8260B	ug/L		U	0.5					
Chloroethane	8260B	ug/L		U	0.5	Chloroethane	8260B	ug/L		U	0.5					
Chloroform	8260B	ug/L		U	0.5	Chloroform	8260B	ug/L		U	0.5					
Chloromethane	8260B	ug/L		U	0.5	Chloromethane	8260B	ug/L		U	0.5					
cis-1,2-Dichloroethylene	8260B	ug/L	1.5		0.5	cis-1,2-Dichloroethylene	8260B	ug/L	1.3		0.5	2.5		0.2	NA, <5x RL	Good/Acceptable
cis-1,3-Dichloropropylene	8260B	ug/L		U	0.5	cis-1,3-Dichloropropylene	8260B	ug/L		U	0.5					
Dibromochloromethane	8260B	ug/L		U	0.5	Dibromochloromethane	8260B	ug/L		U	0.5					
Dibromomethane	8260B	ug/L		U	0.5	Dibromomethane	8260B	ug/L		U	0.5					
Dichlorodifluoromethane	8260B	ug/L		U	1	Dichlorodifluoromethane	8260B	ug/L		U	1					
Ethylbenzene	8260B	ug/L	9.1		0.5	Ethylbenzene	8260B	ug/L	12		0.5	2.5	10.55	2.9	27.5	Good/Acceptable
Hexachlorobutadiene	8260B	ug/L		U	2	Hexachlorobutadiene	8260B	ug/L		U	2					
Isopropyl Ether	8260B	ug/L		U	0.5	Isopropyl Ether	8260B	ug/L		U	0.5					
Isopropylbenzene (Cumene)	8260B	ug/L	7.3		0.5	Isopropylbenzene (Cumene)	8260B	ug/L	9		0.5	2.5	8.15	1.7	20.9	Good/Acceptable
m,p-Xylenes	8260B	ug/L	37		1	m,p-Xylenes	8260B	ug/L	46		1	5	41.5	9	21.7	Good/Acceptable
Methyl Butyl Ketone (2-Hexanone)	8260B	ug/L		U	5	Methyl Butyl Ketone (2-Hexanone)	8260B	ug/L		U	5					

PRIMARY SAMPLE:			TMW-1			DUPLICATE SAMPLE:			Duplicate			5x the Higher RL. [calculate RPD if both >5x]	AVG. of Results for RPD Calc.	Absolute Difference between Results	% RPD (Note 1) [((x1-x2)/AVG) * 100]	Variability (Note 1) (Based on %RPD)
SAMPLING DATE:			1/29/2015			SAMPLING DATE:			1/29/2015							
Parameter	Method	Units	Result	Qualif	RL	Parameter	Method	Units	Result	Qualif	RL					
Methyl Ethyl Ketone (2-Butanone)	8260B	ug/L		U	5	Methyl Ethyl Ketone (2-Butanone)	8260B	ug/L		U	5			-		
Methyl Isobutyl Ketone	8260B	ug/L		U	5	Methyl Isobutyl Ketone	8260B	ug/L		U	5					
Methylene Chloride	8260B	ug/L		U	1	Methylene Chloride	8260B	ug/L		U	1					
Methyl-tert-Butyl Ether	8260B	ug/L		U	0.5	Methyl-tert-Butyl Ether	8260B	ug/L		U	0.5					
Naphthalene	8260B	ug/L	9.6		1	Naphthalene	8260B	ug/L	11		1	5	10.3	1.4	13.6	Good/Acceptable
n-Butylbenzene	8260B	ug/L	8.7		1	n-Butylbenzene	8260B	ug/L	9.8		1	5	9.25	1.1	11.9	Good/Acceptable
n-Propylbenzene	8260B	ug/L	11		0.5	n-Propylbenzene	8260B	ug/L	14		0.5	2.5	12.5	3	24.0	Good/Acceptable
o-Xylene	8260B	ug/L	18		0.5	o-Xylene	8260B	ug/L	20		0.5	2.5	19	2	10.5	Good/Acceptable
sec-Butylbenzene	8260B	ug/L	12		0.5	sec-Butylbenzene	8260B	ug/L	13		0.5	2.5	12.5	1	8.0	Good/Acceptable
Styrene	8260B	ug/L		U	0.5	Styrene	8260B	ug/L		U	0.5					
tert-Butylbenzene	8260B	ug/L	1.8		0.5	tert-Butylbenzene	8260B	ug/L	1.8		0.5	2.5		0	NA, <5x RL	Good/Acceptable
Tetrachloroethylene	8260B	ug/L		U	0.5	Tetrachloroethylene	8260B	ug/L		U	0.5					
Toluene	8260B	ug/L	2.2		0.5	Toluene	8260B	ug/L	2.4		0.5	2.5		0.2	NA, <5x RL	Good/Acceptable
trans-1,2-Dichloroethylene	8260B	ug/L		U	0.5	trans-1,2-Dichloroethylene	8260B	ug/L		U	0.5					
trans-1,3-Dichloropropylene	8260B	ug/L		U	0.5	trans-1,3-Dichloropropylene	8260B	ug/L		U	0.5					
Trichloroethylene	8260B	ug/L		U	0.5	Trichloroethylene	8260B	ug/L		U	0.5					
Trichlorofluoromethane	8260B	ug/L		U	0.5	Trichlorofluoromethane	8260B	ug/L		U	0.5					
Vinyl acetate	8260B	ug/L		U	2	Vinyl acetate	8260B	ug/L		U	2					
Vinyl chloride	8260B	ug/L		U	0.5	Vinyl chloride	8260B	ug/L		U	0.5					
1,2,4-Trichlorobenzene	8270D	ug/L		U	10	1,2,4-Trichlorobenzene	8270D	ug/L		U	10					
1,2-Dichlorobenzene	8270D	ug/L		U	10	1,2-Dichlorobenzene	8270D	ug/L		U	10					
1,3-Dichlorobenzene	8270D	ug/L		U	10	1,3-Dichlorobenzene	8270D	ug/L		U	10					
1,4-Dichlorobenzene	8270D	ug/L		U	10	1,4-Dichlorobenzene	8270D	ug/L		U	10					
1-Methylnaphthalene	8270D	ug/L		U	10	1-Methylnaphthalene	8270D	ug/L		U	10					
2,4,5-Trichlorophenol	8270D	ug/L		U	10	2,4,5-Trichlorophenol	8270D	ug/L		U	10					
2,4,6-Trichlorophenol	8270D	ug/L		U	10	2,4,6-Trichlorophenol	8270D	ug/L		U	10					
2,4-Dichlorophenol	8270D	ug/L		U	10	2,4-Dichlorophenol	8270D	ug/L		U	10					
2,4-Dimethylphenol	8270D	ug/L		U	10	2,4-Dimethylphenol	8270D	ug/L		U	10					
2,4-Dinitrophenol	8270D	ug/L		U	10	2,4-Dinitrophenol	8270D	ug/L		U	10					
2,4-Dinitrotoluene	8270D	ug/L		U	10	2,4-Dinitrotoluene	8270D	ug/L		U	10					
2,6-Dinitrotoluene	8270D	ug/L		U	10	2,6-Dinitrotoluene	8270D	ug/L		U	10					
2-Chloronaphthalene	8270D	ug/L		U	10	2-Chloronaphthalene	8270D	ug/L		U	10					
2-Chlorophenol	8270D	ug/L		U	10	2-Chlorophenol	8270D	ug/L		U	10					
2-Methylnaphthalene	8270D	ug/L		U	10	2-Methylnaphthalene	8270D	ug/L		U	10					
2-Methylphenol	8270D	ug/L		U	10	2-Methylphenol	8270D	ug/L		U	10					
2-Nitroaniline	8270D	ug/L		U	10	2-Nitroaniline	8270D	ug/L		U	10					
2-Nitrophenol	8270D	ug/L		U	10	2-Nitrophenol	8270D	ug/L		U	10					
3,3'-Dichlorobenzidine	8270D	ug/L		U	10	3,3'-Dichlorobenzidine	8270D	ug/L		U	10					
3/4-Methylphenol	8270D	ug/L		U	10	3/4-Methylphenol	8270D	ug/L		U	10					
3-Nitroaniline	8270D	ug/L		U	10	3-Nitroaniline	8270D	ug/L		U	10					
4,6-Dinitro-2-methylphenol	8270D	ug/L		U	10	4,6-Dinitro-2-methylphenol	8270D	ug/L		U	10					
4-Bromophenyl phenyl ether	8270D	ug/L		U	10	4-Bromophenyl phenyl ether	8270D	ug/L		U	10					
4-Chloro-3-methylphenol	8270D	ug/L		U	10	4-Chloro-3-methylphenol	8270D	ug/L		U	10					
4-Chloroaniline	8270D	ug/L		U	10	4-Chloroaniline	8270D	ug/L		U	10					
4-Chlorophenyl phenyl ether	8270D	ug/L		U	10	4-Chlorophenyl phenyl ether	8270D	ug/L		U	10					
4-Nitroaniline	8270D	ug/L		U	10	4-Nitroaniline	8270D	ug/L		U	10					
4-Nitrophenol	8270D	ug/L		U	10	4-Nitrophenol	8270D	ug/L		U	10					
Acenaphthene	8270D	ug/L		U	10	Acenaphthene	8270D	ug/L		U	10					
Acenaphthylene	8270D	ug/L		U	10	Acenaphthylene	8270D	ug/L		U	10					
Aniline	8270D	ug/L		U	10	Aniline	8270D	ug/L		U	10					
Anthracene	8270D	ug/L		U	10	Anthracene	8270D	ug/L		U	10					
Azobenzene	8270D	ug/L		U	10	Azobenzene	8270D	ug/L		U	10					
Benzo(a)anthracene	8270D	ug/L		U	10	Benzo(a)anthracene	8270D	ug/L		U	10					
Benzo(a)pyrene	8270D	ug/L		U	10	Benzo(a)pyrene	8270D	ug/L		U	10					
Benzo(b)fluoranthene	8270D	ug/L		U	10	Benzo(b)fluoranthene	8270D	ug/L		U	10					
Benzo(g,h,i)perylene	8270D	ug/L		U	10	Benzo(g,h,i)perylene	8270D	ug/L		U	10					
Benzo(k)fluoranthene	8270D	ug/L		U	10	Benzo(k)fluoranthene	8270D	ug/L		U	10					
Benzoic Acid	8270D	ug/L		U	100	Benzoic Acid	8270D	ug/L		U	100					

PRIMARY SAMPLE:			TMW-1			DUPLICATE SAMPLE:			Duplicate			5x the Higher RL. [calculate RPD if both >5x]	AVG. of Results for RPD Calc.	Absolute Difference between Results	% RPD (Note 1) [((x1-x2)/AVG) * 100]	Variability (Note 1) (Based on %RPD)
SAMPLING DATE:			1/29/2015			SAMPLING DATE:			1/29/2015							
Parameter	Method	Units	Result	Qualif	RL	Parameter	Method	Units	Result	Qualif	RL					
Benzyl alcohol	8270D	ug/L		U	10	Benzyl alcohol	8270D	ug/L		U	10					
bis(2-Chloroethoxy)methane	8270D	ug/L		U	10	bis(2-Chloroethoxy)methane	8270D	ug/L		U	10					
Bis(2-Chloroethyl)ether	8270D	ug/L		U	10	Bis(2-Chloroethyl)ether	8270D	ug/L		U	10					
Bis(2-chloroisopropyl)ether	8270D	ug/L		U	10	Bis(2-chloroisopropyl)ether	8270D	ug/L		U	10					
Bis(2-Ethylhexyl)phthalate	8270D	ug/L		U	10	Bis(2-Ethylhexyl)phthalate	8270D	ug/L		U	10					
Butyl benzyl phthalate	8270D	ug/L		U	10	Butyl benzyl phthalate	8270D	ug/L		U	10					
Chrysene	8270D	ug/L		U	10	Chrysene	8270D	ug/L		U	10					
Dibenzo(a,h)anthracene	8270D	ug/L		U	10	Dibenzo(a,h)anthracene	8270D	ug/L		U	10					
Dibenzofuran	8270D	ug/L		U	10	Dibenzofuran	8270D	ug/L		U	10					
Diethyl phthalate	8270D	ug/L		U	10	Diethyl phthalate	8270D	ug/L		U	10					
Dimethyl phthalate	8270D	ug/L		U	10	Dimethyl phthalate	8270D	ug/L		U	10					
Di-n-butyl phthalate	8270D	ug/L		U	10	Di-n-butyl phthalate	8270D	ug/L		U	10					
Di-n-octyl phthalate	8270D	ug/L		U	10	Di-n-octyl phthalate	8270D	ug/L		U	10					
Fluoranthene	8270D	ug/L		U	10	Fluoranthene	8270D	ug/L		U	10					
Fluorene	8270D	ug/L		U	10	Fluorene	8270D	ug/L		U	10					
Hexachlorobenzene	8270D	ug/L		U	10	Hexachlorobenzene	8270D	ug/L		U	10					
Hexachlorobutadiene	8270D	ug/L		U	10	Hexachlorobutadiene	8270D	ug/L		U	10					
Hexachlorocyclopentadiene	8270D	ug/L		U	10	Hexachlorocyclopentadiene	8270D	ug/L		U	10					
Hexachloroethane	8270D	ug/L		U	10	Hexachloroethane	8270D	ug/L		U	10					
Indeno(1,2,3-cd)pyrene	8270D	ug/L		U	10	Indeno(1,2,3-cd)pyrene	8270D	ug/L		U	10					
Isophorone	8270D	ug/L		U	10	Isophorone	8270D	ug/L		U	10					
Naphthalene	8270D	ug/L	6.1	J	10	Naphthalene	8270D	ug/L	4.3	J	10					NC - J Value
Nitrobenzene	8270D	ug/L		U	10	Nitrobenzene	8270D	ug/L		U	10					
N-Nitroso-di-n-propylamine	8270D	ug/L		U	10	N-Nitroso-di-n-propylamine	8270D	ug/L		U	10					
N-Nitrosodiphenylamine	8270D	ug/L		U	10	N-Nitrosodiphenylamine	8270D	ug/L		U	10					
Pentachlorophenol	8270D	ug/L		U	10	Pentachlorophenol	8270D	ug/L		U	10					
Phenanthrene	8270D	ug/L		U	10	Phenanthrene	8270D	ug/L		U	10					
Phenol	8270D	ug/L		U	10	Phenol	8270D	ug/L		U	10					
Pyrene	8270D	ug/L		U	10	Pyrene	8270D	ug/L		U	10					

Note 1	= 1. Absolute difference in the result pairs were used if the results were less than 5x the higher of the two reporting limites (RL). If the difference was less than 2x the reporting limit then variability is "acceptable". Differences between the 2x limit and 4x the reporting limit are considered "slightly high". Differences between 4x and 5x the RL are considered "high" variability for the sample pairs. = 2: If the results were greater than 5x the RL, the relative percent difference (RPD) was calculated for each pair (see formulas in column headings). Variability was evaluated based on % RPD: Good/Acceptable (<35%), Slightly High (>35% but <50%) and High (%50).

Bold Concentrations	= Analyte detected in both primary and duplicate samples. Comparison Shown in Table.
D	= RPD value outside of the control limits.
Blank Cells	= Consituent not detected, or below the method detection limit (MDL).
J	= Detected, but below the Reporting Limit; therefore, result is an estimated concentration
U	= Constituent not detected above the method detection limit (MDL), which is lower than the reporting limit (RL).

APPENDIX A

WASTE DISPOSAL DOCUMENTATION

Mid Atlantic
Engineering & Environmental Solutions

Clearfield MMG

Post Office Box 1444
Chesapeake, VA 23327
(757) 549-8448
FAX: (757) 549-6668

NON-HAZARDOUS SHIPPING MANIFEST

MANIFEST NO._____

GENERATOR

NAME	**Mel-Burn Cleaners**	TELEPHONE	**919-250-9918 x248**
ADDRESS	**244 East Main Street**	CITY **Havelock**	STATE **NC**
SHIPMENT ORIGIN	**244 East Main Street**	CITY **Havelock**	STATE **NC**
AUTHORIZED AGENT	**c/o Mid-Atlantic Associates, Inc.**	FIRM	
ADDRESS		OTHER	

MATERIAL CHARACTERIZATION

ACTIVITY GENERATING THIS MATERIAL: UST/AST REMOVAL _____ OTHER **IDW**

PETROLEUM TYPE (S):**Diesel** VIRGIN PRODUCT **X** NON-VIRGIN PRODUCT **X**

PHYSICAL STATE: STOCKPILED _____ EXCAVATING _____ DRUMS **2** OTHER _____
(Soil Cuttings/Purge Water)

HANDLING INSTRUCTIONS: **Transport To Facility Designated Below**

FIRE OR SPILL INSTRCUTIONS: **Non-Flammable / Non-Hazardous**

DESTINATION: **Chesapeake Facility, 416 Dominion Blvd. North**

I hereby certify, to the best of my knowledge, the material characterized above is non-hazardous as defined by the Virginia Hazardous Waste Management Regulations, Federal Regulations under Subtitle C - RCRA, U.S. Department of Transportation, or local / state of origin regulations.

(As Agent)

Signature of Generator / Agent

ERIC B. AUFDERHAAR
MID-ATLANTIC ASSOCIATES, INC / 3-24-15

Printed Name / Date

TRANSPORTER

TRANSPORTER NAME **Clearfield MMG, Inc.** TELEPHONE **549-8448** TRUCK NO. **14**

I certify that the materials described above were received by me for shipment and delivered to the designated facility.

Transporter Signature / Date

FACILITY

I certify that the materials described above were delivered to the facility and received by me.

ACCEPTED BY_____ DATE _____

REASONS FOR REJECTION _____

Gross Weight	
Tare Weight	
Net Weight	
Tons	

FACILITY

Clearfield MMG

resourceful waste management

Material Characterization Form

Applicant Information

Company Name:	Mid-Atlantic Associates, Inc.
Address:	409 Rogers View Court
City / State / Zip:	Raleigh, NC 27610
Contact:	Eric Aufderhaar
Phone:	919-250-9918 x248
Fax:	919-250-9950
e-mail:	eaufderhaar@maaonline.com

Generator Information

Company Name:	Mel-Burn Cleaners (see Note in Proj Desc.)
Address:	244 East Main Street
City / State / Zip:	Havelock, NC 28532
Contact:	Eric Aufderhaar, Mid-Atlantic
Phone:	919-250-9918 x248
Fax:	919-250-9950
e-mail:	eaufderhaar@maaonline.com

Project Description

Site Name: Mel-Burn Cleaners (Note: Brownfields site under EPA grant with the City of Havelock)

Site Address: 244 East Main Street, Havelock, North Carolina

Source of Contamination: Apparent leaking USTs containing virgin petroleum dry-cleaning solvent and fuel oil.

Waste Generating Activity: Investigation-Derived Waste, Drill Cuttings and decon./purge water, Env. Assessment

Waste Description

Applicant must complete the following information and attach all laboratory analyses and / or MSDS utilized to characterize the material as non-hazardous and acceptable for receipt by Clearfield MMG.

General Description: Drill Cuttings containing petroleum from LUST (petroleum solvent) and fuel oil LUST

Matrix: [X] Soil [ ] Sludge [X] Water [ ] Debris / Absorbents

Petroleum Type: *(Check all that apply)*
[X] Virgin (un-used) [X] Non-Virgin (used) [ ] None
[ ] Gas [X] Diesel / # 2 [ ] Motor / Hydraulic Oil [ ] # 4, 5, or 6 Oil

Other Contaminants: Tetrachloroethylene (0.0051 ppm) in 1 of 5 samples. To owner's knowledge, petroleum was always used form drycleaning..

Volume: 2 Drums (1 soil, 1 water) **Lab Analysis Completed:** [X] YES [ ] NO

Generator Certification

I hereby certify, based upon my diligent inquiry into the activities and processes generating the waste described on this form, that these materials are not classified as listed or characteristic hazardous waste as regulated by the Commonwealth of Virginia or the state of origin of this waste; that the materials do not contain 50.0 parts per million or more of polychlorinated biphenyls (PCB's); that the analytical results, completed M*aterial Characterization Form* and attached documentation are a representative, true, and accurate description of these materials; that no deliberate or willful omissions have been made in the preparation of this form; and that all known or suspect hazards have been disclosed herein. I further acknowledge that I am aware it is the duty of all persons to dispose of their solid waste in a legal manner (Va.Code ' 10.1-1418.1.A).

Eric Aufderhaar — Digitally signed by Eric Aufderhaar DN: cn=Eric Aufderhaar, o=Mid-Atlantic Associates, Inc., ou, email=eaufderhaar@maaonline.com, c=US Date: 2015.03.24 12:55:42 -04'00'

Generator or Agent Signature / Date

Eric Aufderhaar (As Agent for the City & Mel-Burn Cleaners)

Generator or Agent Printed Name

If I am an agent signing on behalf of the generator, I have confirmed with the generator that the information contained in this profile is accurate and complete.

For Facility Use Only

Approved By: — Digitally signed by Hunter McCaa DN: cn=Hunter McCaa, o=Clearfield MMG, Inc., ou, email=hmccaa@clearfieldmmg.com, c=US Date: 2015.03.24 14:30:33 -04'00'

Approval Date:

Approval Code: 00822

Comments:

All Deliveries Must be Accompanied by an Approved MCF or Reference Approval Code on Manifest

APPENDIX B

SOIL BORING LOGS AND TEMPORARY MONITORING WELL CONSTRUCTION DIAGRAMS

Mid Atlantic
Engineering & Environmental Solutions

Mid Atlantic
Engineering & Environmental Solutions

409 Rogers View Ct.
Raleigh, NC 27610
Ph: (919) 250-9918

LOG OF BORING: SB-1 (TMW-1)

Site Name:	Mel-Burn Cleaners	Drilling/Boring Method:	DPT - Geoprobe	Total Boring Depth (ft):	15
Project Number:	R2478.00 Task 4065	Sampling Method:	Continuous (Macro-Core®)	Well Depth (ft):	15
Location:	Havelock, NC	Subcontractor/Drillers:	Probe Technology Inc.	Screen Depth (ft):	5 to 15
Date Started:	1/20/2015	Driller :	Terry White	DTW (1/29/2015):	8.21
Date Completed:	1/20/2015	Monitoring Equipment:	TVA (FID)	MAA Field Staff:	W. Blaylock

ft -bgs	Sampling Interval, Odors	TVA - FID (ppm)	Sample to Laboratory	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction Details	ft-bgs
2	0 to 5 ft.	4.33		Light brown fine sandy CLAY	CLAY	2
4						4
6	*Strong Petroleum Odor* 5 to 10'	784.00		Gray silty fine SAND	SAND	6
8		1.37%				8
10	*Strong Petroleum Odor* 10 to 15'	1.50%		Gray silty fine SAND		10
12		763				12
14				Reddish tan, fine to medium SAND w/ SILT		14
16				TD Probe = 15'. Wider (3 1/4") diameter rods used to install TMW.		16
18						18
20					TD = 15 ft.	20

COMMENTS:
Wider (3 1/4 in. diameter) rods advanced to 17ft. For well install
DTW - Depth to Water
1% on TVA = 10,000 ppm

in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface

N/A - indicates not applicable to this boring
ppm - indicates parts per million
TD - Total Depth of Boring for Sampling

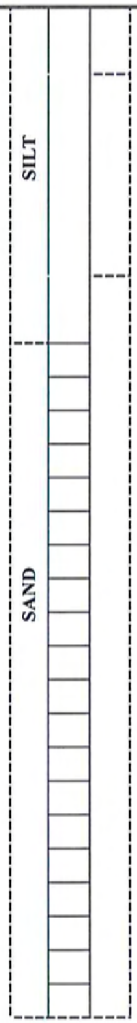
Mid Atlantic
Engineering & Environmental Solutions
409 Rogers View Ct.
Raleigh, NC 27610
Ph: (919) 250-9918

LOG OF BORING: SB-2 (TMW-2)

Site Name:	Mel-Burn Cleaners	Drilling/Boring Method:	Hand Auger then Geoprobe	Total Boring Depth (ft):	15
Project Number:	R2478.00 Task 4065	Sampling Method:	Continuous (Macro-Core®)	Well Depth (ft):	15
Location:	Havelock, NC	Subcontractor/Drillers:	Probe Technology Inc.	Screen Depth (ft):	5 to 15
Date Started:	1/21/2015	Driller :	Terry White	DTW (1/29/2015):	8.89
Date Completed:	1/21/2015	Monitoring Equipment:	TVA (FID)	MAA Field Staff:	W. Blaylock

ft -bgs	Sampling Interval, Odors	TVA - FID (ppm)	Sample to Laboratory	SOIL DESCRIPTION (color, texture, moisture, etc.)
2	*No Odors* 0 to 5 ft.	0.16		**Note: Hand auger used for drilling to 4 feet after first hitting refusal with Geoprobe** **Dark brown fine sandy SILT (top soil)**
4		0.36		**Tan fine sandy SILT**
6	*No Odors* 5 to 10'	0.62		**Tan silty fine SAND**
8		1.28		
10	*No Odors* 10 to 15'	NR		**Tan silty fine SAND (wet)**
12		NR		
14				
16				**TD Probe = 15'. Wider (3 1/4") diameter rods used to install TMW.**
18				
20				TD = 15 ft.

Construction Details



COMMENTS:
Wider (3 1/4 in. diameter) rods advanced to 17ft. For well install
DTW - Depth to Water

in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface

N/A - indicates not applicable to this boring
ppm - indicates parts per million
TD - Total Depth of Boring for Sampling
NR - FID reading not recorded.

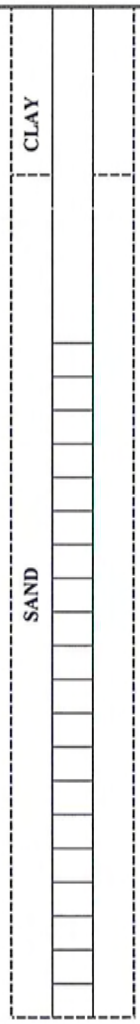
Mid Atlantic
Engineering & Environmental Solutions

409 Rogers View Ct.
Raleigh, NC 27610
Ph: (919) 250-9918

LOG OF BORING: SB-3 (TMW-3)

Site Name:	Mel-Burn Cleaners	Drilling/Boring Method:	DPT - Geoprobe	Total Boring Depth (ft):	15
Project Number:	R2478.00 Task 4065	Sampling Method:	Continuous (Macro-Core®)	Well Depth (ft):	15
Location:	Havelock, NC	Subcontractor/Drillers:	Probe Technology Inc.	Screen Depth (ft):	5 to 15
Date Started:	1/20/2015	Driller :	Terry White	DTW (1/29/2015):	8.05
Date Completed:	1/20/2015	Monitoring Equipment:	TVA (FID)	MAA Field Staff:	W. Blaylock

ft -bgs	Sampling Interval, Odors	TVA - FID (ppm)	Sample to Laboratory	SOIL DESCRIPTION (color, texture, moisture, etc.)
2	*Strong Petroleum Odor* 0 to 5 ft.	247.2		Brown and gray fine sandy CLAY
4		NR		Gray silty fine SAND
6	*Strong Petroleum Odor* 5 to 10'	3443		Gray silty fine SAND
8		5497		
10	*Strong Petroleum Odor* 10 to 15'	3467		Gray silty fine SAND (WET)
12		2576		
14				Reddish tan fine to medium SAND w/ SILT
16				TD Probe = 15'. Wider (3 1/4") diameter rods used to install TMW.
18				
20				



Construction Details

COMMENTS:
Wider (3 1/4 in. diameter) rods advanced to 17ft. For well install
DTW - Depth to Water

in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ppm - indicates parts per million

N/A - indicates not applicable to this boring
ppm - indicates parts per million
TD - Total Depth of Boring for Sampling
NR = Not Recorded

Mid Atlantic
Engineering & Environmental Solutions

409 Rogers View Ct.
Raleigh, NC 27610
Ph: (919) 250-9918

LOG OF BORING: SB-4

Page: of

Site Name:	Mel-Burn Cleaners	Drilling/Boring Method:	DPT - Geoprobe	Total Boring Depth (ft):	5
Project Number:	R2478.00 Task 4065	Sampling Method:	Continuous (Macro-Core®)	Well Depth (ft):	N/A
Location:	Havelock, NC	Subcontractor/Drillers:	Probe Technology Inc.	Screen Depth (ft):	N/A
Date Started:	1/20/2015	Driller :	Terry White	DTW (3/6/2014):	N/A
Date Completed:	1/20/2015	Monitoring Equipment:	TVA (FID)	MAA Field Staff:	W. Blaylock

ft -bgs	Sampling Interval, Odors	TVA - FID (ppm)	Poor Recovery (ft.) If Applicable	Sample to Laboratory	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction Details	ft-bgs
2	*Strong Petroleum Odor* 0 to 5 ft.	1706			Gray fine sandy CLAY		2
4		2557					4
6							6

COMMENTS:
TD = 5 ft.
DTW - Depth to Water

in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface

N/A - indicates not applicable to this boring
ppm - indicates parts per million
TD - Total Depth of Boring for Sampling

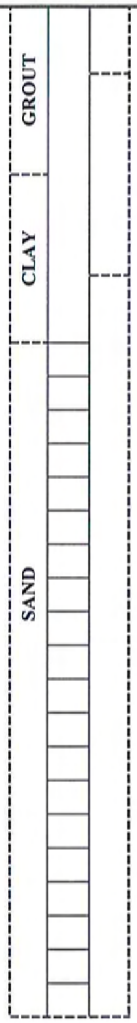
Mid Atlantic
Engineering & Environmental Solutions
409 Rogers View Ct.
Raleigh, NC 27610
Ph: (919) 250-9918

LOG OF BORING: SB-5 (TMW-5)

Site Name:	Mel-Burn Cleaners	Drilling/Boring Method:	DPT - Geoprobe	Total Boring Depth (ft):	15
Project Number:	R2478.00 Task 4065	Sampling Method:	Continuous (Macro-Core®)	Well Depth (ft):	15
Location:	Havelock, NC	Subcontractor/Drillers:	Probe Technology Inc.	Screen Depth (ft):	5 to 15
Date Started:	1/20/2015	Driller :	Terry White	DTW (1/29/2015):	8.55
Date Completed:	1/20/2015	Monitoring Equipment:	TVA (FID)	MAA Field Staff:	W. Blaylock

ft -bgs	Sampling Interval, Odors	TVA - FID (ppm)	Sample to Laboratory	SOIL DESCRIPTION (color, texture, moisture, etc.)
2	*Strong Petroleum Odor* 0 to 5 ft.	132		Gray silty fine SAND
4		75.54		Gray fine sandy CLAY
6	*Strong Petroleum Odor* 5 to 10'	3.43		Tan silty fine SAND
8		4.91		Gray silty fine SAND
10	*Strong Petroleum Odor* 10 to 15'	162		Gray silty fine SAND (WET below 10 ft.)
12				
14		37.65		
16				TD Probe = 15'. Wider (3 1/4") diameter rods used to install TMW.
18				
20				

Construction Details



TD = 15 ft.

COMMENTS:
Wider (3 1/4 in. diameter) rods advanced to 17ft. For well install
DTW - Depth to Water

in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface

N/A - indicates not applicable to this boring
ppm - indicates parts per million
TD - Total Depth of Boring for Sampling

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Terry R. White Jr

Well Contractor Name

3287-B

NC Well Contractor Certification Number

Terra Sonic Int. dba Probe Technology, Inc

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 1/20/15 **Well ID#** TMW-1,2,3,5

5a. Well Location:

Powell Properties

Facility/Owner Name

Facility ID# (if applicable)

244 E. Main Street, Havelock

Physical Address, City, and Zip

Craven

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

34 52 38.1 N 76 54 16 W

6. Is (are) the well(s): ☐**Permanent** or ☑**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 4

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 15 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 7 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 3.25 **(in.)**

12. Well construction method: DPT

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
7 ft.	15 ft.	silty sand
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	5 ft.	1 in.	Sch40	PVC

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
5 ft.	15 ft.	1 in.	0.010	Sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	1 ft.	concrete	pour
1 ft.	3 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
3 ft.	15 ft.	#2 silica sand	pour through drill rods
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	See consultant's log
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Mike Tynan Digitally signed by Mike Tynan DN: cn=Mike Tynan, o, ou, email=mtynan@probe-tech.com, c=US Date: 2015.01.18 12:16:56 -05'00' 1/25/15

Signature of Certified Well Contractor Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:

Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

APPENDIX C

GROUNDWATER MONITORING FIELD RECORDS

Mid Atlantic
Engineering & Environmental Solutions

Mid Atlantic
Engineering & Environmental Solutions
409 Rogers View Court
Raleigh, NC 27610

GROUNDWATER SAMPLING - FIELD DATA SHEET

SITE INFORMATION

Facility Name: Mel-Burn
Project Number: 2478.00 T, 4065
Location: Havelock NC
Date Started: 1/29/15
Date Completed: Same

WELL INFORMATION

Well ID: TMW-1
Casing Diameter: 1"
TOC Elev.:
Total Well Depth: 15'
Depth to Water: 8.21'
GW Elevation:

WEATHER CONDITIONS

Weather Conditions (Circle): Clear Rain Windy Cloudy Hot Cold
Air Temperature: Upper 30s F/C

VOLUME CALCULATIONS

Total Well Depth (TWD): 15 Ft.
Depth to Water (DTW): 8.21 Ft.
Water Column (WC): 6.79 Ft.
(Well Volume = WC x CF)
1 Well Volume: 1.4 Gal.
3 Well Volumes: 1.2 Gal.

Conversion Factors (WC to Gallons)
CF 2-inch = 0.163
CF 4-inch = 0.652
CF 6-inch = 1.468

FIELD MEASUREMENTS

Time:	1120	1123	1126	1129	1132	1135	1138
Purge Volume:	0.0	.25	.25	.25	.25	.25	.25
Total Volume:	0.0	.25	.50	.75	1.0	1.25	1.50
pH (s.u.):	7.03	7.14	7.13	7.12	7.06	7.08	7.02
Conductivity (umhos/cm): (uS/cm)	745	738	709	677	670	655	648
Temperature (°C):	15.7	16.5	16.7	16.7	16.4	16.5	16.7
Turbidity:	900	593	616	602	455	338	248
Dissolved Oxygen (mg/L):	-	-	-	-	-	-	-

SAMPLE INFORMATION

Sampled By: Cory A Fischer
Time: 1145

Additional Comments: Purged 2.0 gals. prior to sample collection
Fairly strong petro. odor to purge H2O, v. light sheen

Mid Atlantic
Engineering & Environmental Solutions
409 Rogers View Court
Raleigh, NC 27610

GROUNDWATER SAMPLING - FIELD DATA SHEET

SITE INFORMATION

Facility Name: Mel-Burn
Project Number: R2478 T.4065
Location: Havelock N.C.
Date Started: 1/29/15
Date Completed: Same

WELL INFORMATION

Well ID: TMW-1
Casing Diameter: 4
TOC Elev.:
Total Well Depth: 15'
Depth to Water: 8.21'
GW Elevation:

WEATHER CONDITIONS

Weather Conditions (Circle): Clear, Rain, Windy, Cloudy, Hot, Cold
Air Temperature: Upper 30s P/C

VOLUME CALCULATIONS

Total Well Depth (TWD): 15' Ft.
Depth to Water (DTW): 8.21 Ft.
Water Column (WC): 6.79 Ft.
(Well Volume = WC x CF)
1 Well Volume: 4 Gal.
3 Well Volumes: 1.2 Gal.

Conversion Factors (WC to Gallons)
CF 2-inch = 0.163
CF 4-inch = 0.652
CF 6-inch = 1.468

FIELD MEASUREMENTS

Time:	1141	1144					
Purge Volume:	.25	.25					
Total Volume:	1.75	2.0					
pH (s.u.):	7.02	6.98					
Conductivity (umhos/cm):	643	637					
Temperature (°C):	16.4	16.6					
Turbidity:	204	151					
Dissolved Oxygen (mg/L):	-	-					

SAMPLE INFORMATION

Sampled By: Gary A. Fischer
Time: 1145

Additional Comments: Purged 2.0 gals. prior to sample collection! Fairly Strong Petro. odor, V. light Sheen

Mid Atlantic
Engineering & Environmental Solutions
409 Rogers View Court
Raleigh, NC 27610

GROUNDWATER SAMPLING - FIELD DATA SHEET

SITE INFORMATION

Facility Name: MEL-BURN DRY CLEANERS
Project Number: R2478.00
Location: 244 E. Main St., Havelock, NC
Date Started: ~~1/20~~ 1/21/15
Date Completed: ~~1/20~~ 1/21/15

WELL INFORMATION

Well ID: SB-2 (TMW-2)
Casing Diameter: 1"
TOC Elev.:
Total Well Depth: 15'
Depth to Water: 9.58
GW Elevation:

WEATHER CONDITIONS

Weather Conditions (Circle): (Clear) Rain Windy Cloudy Hot Cold
Air Temperature: 65°

VOLUME CALCULATIONS

Total Well Depth (TWD): 15 Ft.
Depth to Water (DTW): 9.58 Ft.
Water Column (WC): 5.42 Ft.
(Well Volume = WC x CF)
1 Well Volume: 0.44 Gal.
3 Well Volumes: 1.32 Gal.

Conversion Factors (WC to Gallons)
CF 2-inch = 0.163
CF 4-inch = 0.652
CF 6-inch = 1.468

FIELD MEASUREMENTS

Time:	10:15	10:20	10:22	10:25	10:28	10:35	10:45	10:55
Purge Volume:								
Total Volume:	1	2	2.5	3.0	3.75	4.75	7.5	9.0
pH (s.u.):	7.09	6.93	6.94	6.69	6.50	6.35	6.14	6.05
Conductivity (umhos/cm):	484	482	460	410	377	356	296	291
Temperature (°C):	18.9	19.2	19.6	19.7	19.8	20.0	20.0	20.2
Turbidity:	over	over	over	over	499	151	66.3	18.0
Dissolved Oxygen (mg/L):								

SAMPLE INFORMATION

Sampled By: WB
Time: 11:00 on 1/21

Additional Comments:

Mid Atlantic
Engineering & Environmental Solutions
409 Rogers View Court
Raleigh, NC 27610

GROUNDWATER SAMPLING - FIELD DATA SHEET

SITE INFORMATION

Facility Name: Mel-Burn
Project Number: 12478.00 T. 4065
Location: Havelock, N.C
Date Started: 11/29/15
Date Completed: Same

WELL INFORMATION

Well ID: TMW-3
Casing Diameter: 1"
TOC Elev.:
Total Well Depth: 15'
Depth to Water: 8.05'
GW Elevation:

WEATHER CONDITIONS

Weather Conditions (Circle): Clear, Rain, Windy, Cloudy, Hot, Cold
Air Temperature: Low 30's P/C

VOLUME CALCULATIONS

Conversion Factors (WC to Gallons)

Total Well Depth (TWD): 15 Ft.
Depth to Water (DTW): 8.05 Ft.
Water Column (WC): 6.95 Ft.
(Well Volume = WC x CF)
1 Well Volume: .42 Gal.
3 Well Volumes: 1.3 Gal.

CF 2-inch = 0.163
CF 4-inch = 0.652
CF 6-inch = 1.468

FIELD MEASUREMENTS

Time:	1020	1023	1026	1029	1032	1035	1038
Purge Volume:	0.0	.25	.25	.25	.25	.25	.25
Total Volume:	0.0	.25	.50	.75	1.0	1.25	1.50
pH (s.u.):	6.93	6.86	6.72	6.66	6.67	6.59	6.61
Conductivity (umhos/cm):	580	553	494	479	467	454	421
Temperature (°C):	14.6	15.8	15.6	16.1	15.9	16.5	16.4
Turbidity:	999+	999+	375	127	47.2	31.9	24.3
Dissolved Oxygen (mg/L):	-	-	-	-	-	-	-

SAMPLE INFORMATION

Sampled By: Cory A Fischer
Time: 1045

Additional Comments: Purged 2.0 gals prior to sample collection! Strong petro. odor to purge H2O, sheen to H2O

2 of 2

Mid Atlantic
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409 Rogers View Court
Raleigh, NC 27610

GROUNDWATER SAMPLING - FIELD DATA SHEET

SITE INFORMATION

Facility Name: Mel-Burn
Project Number: 12478.00 T. 4065
Location: Hayelock, N.C.
Date Started: 1/29/15
Date Completed: Same

WELL INFORMATION

Well ID: TMW-3
Casing Diameter: 4"
TOC Elev.:
Total Well Depth: 15'
Depth to Water: 8.05'
GW Elevation:

WEATHER CONDITIONS

Weather Conditions (Circle): Clear Rain / Windy Cloudy Hot Cold
Air Temperature: Low 30s F/C

VOLUME CALCULATIONS

Total Well Depth (TWD): 15' Ft.
Depth to Water (DTW): 8.05 Ft.
Water Column (WC): 6.90 Ft.
(Well Volume = WC x CF)
1 Well Volume: .42 Gal.
3 Well Volumes: 1.3 Gal.

Conversion Factors (WC to Gallons)
CF 2-inch = 0.163
CF 4-inch = 0.652
CF 6-inch = 1.468

FIELD MEASUREMENTS

Time:	1041	1044					
Purge Volume:	.25	.25					
Total Volume:	1.75	2.0					
pH (s.u.):	6.54	6.49					
Conductivity (umhos/cm):	4.09	405					
Temperature (°C):	16.7	16.9					
Turbidity:	18.8	14.3					
Dissolved Oxygen (mg/L):	–	–					

SAMPLE INFORMATION

Sampled By: Cary H Fosler
Time: 1045

Additional Comments: Purged 2.0 gals. prior to sample collection. Strong petro. odor to purge H2O, sheen

1.62

Mid Atlantic
Engineering & Environmental Solutions

409 Rogers View Court
Raleigh, NC 27610

GROUNDWATER SAMPLING - FIELD DATA SHEET

SITE INFORMATION

Facility Name: Mel-Burn Laundry
Project Number: R 2478,00 T. 4065
Location: Havelock, N. C
Date Started: 1/29/15
Date Completed: Same

WELL INFORMATION

Well ID: TMW-5
Casing Diameter: 1"
TOC Elev.:
Total Well Depth: 15'
Depth to Water: 8.55
GW Elevation:

WEATHER CONDITIONS

Weather Conditions (Circle): (Clear) Rain Windy Cloudy Hot Cold
Air Temperature: Upper 20s

VOLUME CALCULATIONS

Total Well Depth (TWD): 15' Ft.
Depth to Water (DTW): 8.55 Ft.
Water Column (WC): 6.45 Ft.
(Well Volume = WC x CF)
1 Well Volume: .4 Gal.
3 Well Volumes: 1.2 Gal.

Conversion Factors (WC to Gallons)
CF 2-inch = 0.163
CF 4-inch = 0.652
CF 6-inch = 1.468

FIELD MEASUREMENTS

Time:	0925	0928	0931	0934	0937	0940	0943
Purge Volume:	0.0	.25	.25	.25	.25	.25	.25
Total Volume:	0.0	.25	.50	.75	1.0	1.25	1.50
pH (s.u.):	6.79	6.81	6.77	6.74	6.70	6.68	6.65
Conductivity (umhos/cm):	448	531	530	524	525	490	488
Temperature (°C):	15.7	15.7	17.4	17.3	16.9	17.2	17.1
Turbidity:	999+	999+	999+	873	324	134	97.6
Dissolved Oxygen (mg/L):	—	—	—	—	—	—	—

SAMPLE INFORMATION

Sampled By: Gary A. Lischer
Time: 0950

Additional Comments: Purged 2.0 gals. prior to sample collection. Purge H2O had sl. petro odor to it.

2.62

Mid Atlantic
Engineering & Environmental Solutions

409 Rogers View Court
Raleigh, NC 27610

GROUNDWATER SAMPLING - FIELD DATA SHEET

SITE INFORMATION

Facility Name: Mel-Burn Laundry
Project Number: R2478.00 T.4065
Location: Hayclock, N.C.
Date Started: 1/29/15
Date Completed: Same

WELL INFORMATION

Well ID: TMW-5
Casing Diameter: 4
TOC Elev.:
Total Well Depth: 15'
Depth to Water: 8.55
GW Elevation:

WEATHER CONDITIONS

Weather Conditions (Circle): (Clear) Rain, Windy Cloudy Hot Cold
Air Temperature: Upper 20s

VOLUME CALCULATIONS

Conversion Factors (WC to Gallons)

Total Well Depth (TWD): 15' Ft.
Depth to Water (DTW): 8.55 Ft.
Water Column (WC): 6.45 Ft.
(Well Volume = WC x CF)
1 Well Volume: .4 Gal.
3 Well Volumes: 1.2 Gal.

CF 2-inch = 0.163
CF 4-inch = 0.652
CF 6-inch = 1.468

FIELD MEASUREMENTS

Time:	0946	0949					
Purge Volume:	.25	.25					
Total Volume:	1.75	2.0					
pH (s.u.):	6.66	6.64					
Conductivity (umhos/cm):	484	479					
Temperature (°C):	17.1	17.2					
Turbidity:	87.2	50.0					
Dissolved Oxygen (mg/L):	—	—					

SAMPLE INFORMATION

Sampled By: Corey A Fiscle
Time: 0950

Additional Comments: Purged 2.0 gals. prior to sample collection
Purge H2O had sl. Petro. odor to it.

APPENDIX D

SOIL SAMPLE LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY RECORDS

Mid Atlantic
Engineering & Environmental Solutions

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

02/06/2015

Mid-Atlantic Associates, Inc. - Raleigh
Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Lab Submittal Date: 01/23/2015
Prism Work Order: 5010401

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Robbi A. Jones For Angela D. Overcash
President/Project Manager

Data Qualifiers Key Reference:

CVL	CCV result is below the control limits. LCS recovery within the limits. Analyte not detected in the sample. No further action taken.
D	RPD value outside of the control limits.
DM	Sample diluted and RL increased due to the matrix.
E	Estimated concentration above the calibration range
IH	Internal standard response below the QC limit. Analyte reported with possible high bias.
IN	Low Internal Standard response. Compound not detected. No further action taken.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
M	Matrix spike outside of the control limits.
R35	Sample was received in a container that does not meet the requirements of Method SW846-5035.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Sample Receipt Summary

02/06/2015

Prism Work Order: 5010401

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
SB-1	5010401-01	Solid	01/20/15	01/23/15
SB-2	5010401-02	Solid	01/20/15	01/23/15
SB-3	5010401-03	Solid	01/20/15	01/23/15
SB-4	5010401-04	Solid	01/20/15	01/23/15
SB-5	5010401-05	Solid	01/20/15	01/23/15
Dup-1	5010401-06	Solid	01/20/15	01/23/15
SB-2	5010401-07	Water	01/21/15	01/23/15
Dup-1	5010401-08	Water	01/21/15	01/23/15
Trip Blank	5010401-09	Water	01/22/15	01/23/15

Samples were received in good condition at 1.7 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

02/06/2015

Prism Work Order: 5010401

Prism ID	Client ID	Parameter	Method	Result		Units
5010401-01	SB-1	1,2,4-Trimethylbenzene	8260B	0.25	E	mg/kg dry
5010401-01	SB-1	1,3,5-Trimethylbenzene	8260B	0.16		mg/kg dry
5010401-01	SB-1	4-Isopropyltoluene	8260B	0.073		mg/kg dry
5010401-01	SB-1	Ethylbenzene	8260B	0.015		mg/kg dry
5010401-01	SB-1	Isopropylbenzene (Cumene)	8260B	0.026		mg/kg dry
5010401-01	SB-1	m,p-Xylenes	8260B	0.046		mg/kg dry
5010401-01	SB-1	Naphthalene	8260B	0.0040	J	mg/kg dry
5010401-01	SB-1	n-Butylbenzene	8260B	0.082		mg/kg dry
5010401-01	SB-1	n-Propylbenzene	8260B	0.048		mg/kg dry
5010401-01	SB-1	o-Xylene	8260B	0.022		mg/kg dry
5010401-01	SB-1	sec-Butylbenzene	8260B	0.086		mg/kg dry
5010401-01	SB-1	tert-Butylbenzene	8260B	0.0066		mg/kg dry
5010401-01	SB-1	Xylenes, total	8260B	0.069		mg/kg dry
5010401-02	SB-2	1-Methylnaphthalene	8270D	1.3	J	mg/kg dry
5010401-02	SB-2	2-Methylnaphthalene	8270D	2.3		mg/kg dry
5010401-02	SB-2	Naphthalene	8270D	3.2		mg/kg dry
5010401-03	SB-3	Ethylbenzene	8260B	0.15		mg/kg dry
5010401-03	SB-3	Naphthalene	8260B	0.12	IH	mg/kg dry
5010401-03	SB-3	o-Xylene	8260B	0.062		mg/kg dry
5010401-03	SB-3	1,2,4-Trimethylbenzene	8260B	63		mg/kg dry
5010401-03	SB-3	1,3,5-Trimethylbenzene	8260B	31		mg/kg dry
5010401-03	SB-3	4-Isopropyltoluene	8260B	13		mg/kg dry
5010401-03	SB-3	Isopropylbenzene (Cumene)	8260B	1.2		mg/kg dry
5010401-03	SB-3	m,p-Xylenes	8260B	1.2		mg/kg dry
5010401-03	SB-3	n-Butylbenzene	8260B	7.8		mg/kg dry
5010401-03	SB-3	n-Propylbenzene	8260B	2.9		mg/kg dry
5010401-03	SB-3	sec-Butylbenzene	8260B	3.7		mg/kg dry
5010401-03	SB-3	tert-Butylbenzene	8260B	0.92		mg/kg dry
5010401-04	SB-4	Bis(2-Ethylhexyl)phthalate	8270D	5.7		mg/kg dry
5010401-04	SB-4	Naphthalene	8270D	3.7	J	mg/kg dry
5010401-04	SB-4	Bromobenzene	8260B	0.036		mg/kg dry
5010401-04	SB-4	Ethylbenzene	8260B	0.15		mg/kg dry
5010401-04	SB-4	Isopropylbenzene (Cumene)	8260B	0.16		mg/kg dry
5010401-04	SB-4	Naphthalene	8260B	0.045		mg/kg dry
5010401-04	SB-4	n-Butylbenzene	8260B	0.13		mg/kg dry
5010401-04	SB-4	tert-Butylbenzene	8260B	0.069		mg/kg dry
5010401-04	SB-4	1,2,4-Trimethylbenzene	8260B	20		mg/kg dry
5010401-04	SB-4	1,3,5-Trimethylbenzene	8260B	11		mg/kg dry
5010401-04	SB-4	4-Isopropyltoluene	8260B	3.2		mg/kg dry
5010401-04	SB-4	m,p-Xylenes	8260B	1.6		mg/kg dry
5010401-04	SB-4	n-Propylbenzene	8260B	1.7		mg/kg dry
5010401-04	SB-4	sec-Butylbenzene	8260B	2.0		mg/kg dry
5010401-04	SB-4	Xylenes, total	8260B	1.6		mg/kg dry
5010401-05	SB-5	1-Methylnaphthalene	8270D	0.14	J	mg/kg dry

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

02/06/2015

Prism Work Order: 5010401

Prism ID	Client ID	Parameter	Method	Result		Units
5010401-05	SB-5	2-Methylnaphthalene	8270D	0.19	J	mg/kg dry
5010401-05	SB-5	Bis(2-Ethylhexyl)phthalate	8270D	0.36	J	mg/kg dry
5010401-05	SB-5	Pyrene	8270D	0.24	J	mg/kg dry
5010401-05	SB-5	1,2,4-Trimethylbenzene	8260B	0.033		mg/kg dry
5010401-05	SB-5	1,3,5-Trimethylbenzene	8260B	0.012		mg/kg dry
5010401-05	SB-5	4-Isopropyltoluene	8260B	0.0046		mg/kg dry
5010401-05	SB-5	Naphthalene	8260B	0.043		mg/kg dry
5010401-05	SB-5	n-Butylbenzene	8260B	0.0037	J	mg/kg dry
5010401-05	SB-5	n-Propylbenzene	8260B	0.0018	J	mg/kg dry
5010401-05	SB-5	o-Xylene	8260B	0.0028	J	mg/kg dry
5010401-05	SB-5	Tetrachloroethylene	8260B	0.0051		mg/kg dry
5010401-05	SB-5	Xylenes, total	8260B	0.0028	J	mg/kg dry
5010401-07	SB-2	1,2,4-Trimethylbenzene	8260B	18		ug/L
5010401-07	SB-2	1,3,5-Trimethylbenzene	8260B	12		ug/L
5010401-07	SB-2	4-Isopropyltoluene	8260B	0.62		ug/L
5010401-07	SB-2	Ethylbenzene	8260B	1.2		ug/L
5010401-07	SB-2	Isopropylbenzene (Cumene)	8260B	2.0		ug/L
5010401-07	SB-2	m,p-Xylenes	8260B	2.5		ug/L
5010401-07	SB-2	Methylene Chloride	8260B	11		ug/L
5010401-07	SB-2	Naphthalene	8260B	0.66	J	ug/L
5010401-07	SB-2	n-Butylbenzene	8260B	1.1		ug/L
5010401-07	SB-2	n-Propylbenzene	8260B	2.8		ug/L
5010401-07	SB-2	o-Xylene	8260B	3.9		ug/L
5010401-07	SB-2	sec-Butylbenzene	8260B	2.0		ug/L
5010401-07	SB-2	Tetrachloroethylene	8260B	2.0		ug/L
5010401-08	Dup-1	1,2,4-Trimethylbenzene	8260B	19		ug/L
5010401-08	Dup-1	1,3,5-Trimethylbenzene	8260B	12		ug/L
5010401-08	Dup-1	4-Isopropyltoluene	8260B	0.67		ug/L
5010401-08	Dup-1	Ethylbenzene	8260B	1.3		ug/L
5010401-08	Dup-1	Isopropylbenzene (Cumene)	8260B	2.0		ug/L
5010401-08	Dup-1	m,p-Xylenes	8260B	2.6		ug/L
5010401-08	Dup-1	Methylene Chloride	8260B	3.3		ug/L
5010401-08	Dup-1	Naphthalene	8260B	0.69	J	ug/L
5010401-08	Dup-1	n-Butylbenzene	8260B	1.5		ug/L
5010401-08	Dup-1	n-Propylbenzene	8260B	2.9		ug/L
5010401-08	Dup-1	o-Xylene	8260B	4.1		ug/L
5010401-08	Dup-1	sec-Butylbenzene	8260B	2.0		ug/L
5010401-08	Dup-1	Tetrachloroethylene	8260B	2.3		ug/L

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-1
Prism Sample ID: 5010401-01
Prism Work Order: 5010401
Time Collected: 01/20/15 13:00
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**84.9**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**1/27/15 16:15**	**MJO**	**P5A0380**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.39	0.061	1	8270D	2/2/15 21:12	KC	P5A0379
1,2-Dichlorobenzene	BRL	mg/kg dry	0.39	0.059	1	8270D	2/2/15 21:12	KC	P5A0379
1,3-Dichlorobenzene	BRL	mg/kg dry	0.39	0.055	1	8270D	2/2/15 21:12	KC	P5A0379
1,4-Dichlorobenzene	BRL	mg/kg dry	0.39	0.057	1	8270D	2/2/15 21:12	KC	P5A0379
1-Methylnaphthalene	BRL	mg/kg dry	0.39	0.075	1	8270D	2/2/15 21:12	KC	P5A0379
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.39	0.073	1	8270D	2/2/15 21:12	KC	P5A0379
2,4-Dichlorophenol	BRL	mg/kg dry	0.39	0.075	1	8270D	2/2/15 21:12	KC	P5A0379
2,4-Dimethylphenol	BRL	mg/kg dry	0.39	0.060	1	8270D	2/2/15 21:12	KC	P5A0379
2,4-Dinitrophenol	BRL	mg/kg dry	0.39	0.054	1	8270D	2/2/15 21:12	KC	P5A0379
2,4-Dinitrotoluene	BRL	mg/kg dry	0.39	0.047	1	8270D	2/2/15 21:12	KC	P5A0379
2,6-Dinitrotoluene	BRL	mg/kg dry	0.39	0.052	1	8270D	2/2/15 21:12	KC	P5A0379
2-Chloronaphthalene	BRL	mg/kg dry	0.39	0.056	1	8270D	2/2/15 21:12	KC	P5A0379
2-Chlorophenol	BRL	mg/kg dry	0.39	0.055	1	8270D	2/2/15 21:12	KC	P5A0379
2-Methylnaphthalene	BRL	mg/kg dry	0.39	0.062	1	8270D	2/2/15 21:12	KC	P5A0379
2-Methylphenol	BRL	mg/kg dry	0.39	0.050	1	8270D	2/2/15 21:12	KC	P5A0379
2-Nitrophenol	BRL	mg/kg dry	0.39	0.071	1	8270D	2/2/15 21:12	KC	P5A0379
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.39	0.077	1	8270D	2/2/15 21:12	KC	P5A0379
3/4-Methylphenol	BRL	mg/kg dry	0.39	0.048	1	8270D	2/2/15 21:12	KC	P5A0379
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.39	0.058	1	8270D	2/2/15 21:12	KC	P5A0379
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.39	0.067	1	8270D	2/2/15 21:12	KC	P5A0379
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.39	0.054	1	8270D	2/2/15 21:12	KC	P5A0379
4-Chloroaniline	BRL	mg/kg dry	0.39	0.047	1	8270D	2/2/15 21:12	KC	P5A0379
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.39	0.050	1	8270D	2/2/15 21:12	KC	P5A0379
4-Nitrophenol	BRL	mg/kg dry	0.39	0.060	1	8270D	2/2/15 21:12	KC	P5A0379
Acenaphthene	BRL	mg/kg dry	0.39	0.053	1	8270D	2/2/15 21:12	KC	P5A0379
Acenaphthylene	BRL	mg/kg dry	0.39	0.056	1	8270D	2/2/15 21:12	KC	P5A0379
Anthracene	BRL	mg/kg dry	0.39	0.063	1	8270D	2/2/15 21:12	KC	P5A0379
Azobenzene	BRL	mg/kg dry	0.39	0.051	1	8270D	2/2/15 21:12	KC	P5A0379
Benzo(a)anthracene	BRL	mg/kg dry	0.39	0.051	1	8270D	2/2/15 21:12	KC	P5A0379
Benzo(a)pyrene	BRL	mg/kg dry	0.39	0.042	1	8270D	2/2/15 21:12	KC	P5A0379
Benzo(b)fluoranthene	BRL	mg/kg dry	0.39	0.045	1	8270D	2/2/15 21:12	KC	P5A0379
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.39	0.043	1	8270D	2/2/15 21:12	KC	P5A0379
Benzo(k)fluoranthene	BRL	mg/kg dry	0.39	0.051	1	8270D	2/2/15 21:12	KC	P5A0379
Benzoic Acid	BRL	mg/kg dry	0.39	0.033	1	8270D	2/2/15 21:12	KC	P5A0379
Benzyl alcohol	BRL	mg/kg dry	0.39	0.051	1	8270D	2/2/15 21:12	KC	P5A0379
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.39	0.067	1	8270D	2/2/15 21:12	KC	P5A0379
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.39	0.055	1	8270D	2/2/15 21:12	KC	P5A0379
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.39	0.066	1	8270D	2/2/15 21:12	KC	P5A0379
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.39	0.058	1	8270D	2/2/15 21:12	KC	P5A0379

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-1
Prism Sample ID: 5010401-01
Prism Work Order: 5010401
Time Collected: 01/20/15 13:00
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Butyl benzyl phthalate	BRL	mg/kg dry	0.39	0.055	1	8270D	2/2/15 21:12	KC	P5A0379
Chrysene	BRL	mg/kg dry	0.39	0.049	1	8270D	2/2/15 21:12	KC	P5A0379
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.39	0.047	1	8270D	2/2/15 21:12	KC	P5A0379
Dibenzofuran	BRL	mg/kg dry	0.39	0.059	1	8270D	2/2/15 21:12	KC	P5A0379
Diethyl phthalate	BRL	mg/kg dry	0.39	0.054	1	8270D	2/2/15 21:12	KC	P5A0379
Dimethyl phthalate	BRL	mg/kg dry	0.39	0.051	1	8270D	2/2/15 21:12	KC	P5A0379
Di-n-butyl phthalate	BRL	mg/kg dry	0.39	0.055	1	8270D	2/2/15 21:12	KC	P5A0379
Di-n-octyl phthalate	BRL	mg/kg dry	0.39	0.048	1	8270D	2/2/15 21:12	KC	P5A0379
Fluoranthene	BRL	mg/kg dry	0.39	0.050	1	8270D	2/2/15 21:12	KC	P5A0379
Fluorene	BRL	mg/kg dry	0.39	0.056	1	8270D	2/2/15 21:12	KC	P5A0379
Hexachlorobenzene	BRL	mg/kg dry	0.39	0.062	1	8270D	2/2/15 21:12	KC	P5A0379
Hexachlorobutadiene	BRL	mg/kg dry	0.39	0.070	1	8270D	2/2/15 21:12	KC	P5A0379
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.39	0.069	1	8270D	2/2/15 21:12	KC	P5A0379
Hexachloroethane	BRL	mg/kg dry	0.39	0.065	1	8270D	2/2/15 21:12	KC	P5A0379
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.39	0.045	1	8270D	2/2/15 21:12	KC	P5A0379
Isophorone	BRL	mg/kg dry	0.39	0.053	1	8270D	2/2/15 21:12	KC	P5A0379
Naphthalene	BRL	mg/kg dry	0.39	0.062	1	8270D	2/2/15 21:12	KC	P5A0379
Nitrobenzene	BRL	mg/kg dry	0.39	0.055	1	8270D	2/2/15 21:12	KC	P5A0379
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.39	0.061	1	8270D	2/2/15 21:12	KC	P5A0379
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.39	0.059	1	8270D	2/2/15 21:12	KC	P5A0379
Pentachlorophenol	BRL	mg/kg dry	0.39	0.046	1	8270D	2/2/15 21:12	KC	P5A0379
Phenanthrene	BRL	mg/kg dry	0.39	0.050	1	8270D	2/2/15 21:12	KC	P5A0379
Phenol	BRL	mg/kg dry	0.39	0.057	1	8270D	2/2/15 21:12	KC	P5A0379
Pyrene	BRL	mg/kg dry	0.39	0.051	1	8270D	2/2/15 21:12	KC	P5A0379

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*108 %*	*39-132*
2-Fluorobiphenyl	*101 %*	*44-115*
2-Fluorophenol	*101 %*	*35-115*
Nitrobenzene-d5	*98 %*	*37-122*
Phenol-d5	*93 %*	*34-121*
Terphenyl-d14	*116 %*	*54-127*

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0042	0.00035	1	8260B	1/26/15 14:03	MSC	P5A0345
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0042	0.00020	1	8260B	1/26/15 14:03	MSC	P5A0345
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0042	0.00028	1	8260B	1/26/15 14:03	MSC	P5A0345
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0042	0.00037	1	8260B	1/26/15 14:03	MSC	P5A0345
1,1-Dichloroethane	BRL	mg/kg dry	0.0042	0.00012	1	8260B	1/26/15 14:03	MSC	P5A0345
1,1-Dichloroethylene	BRL	mg/kg dry	0.0042	0.00019	1	8260B	1/26/15 14:03	MSC	P5A0345
1,1-Dichloropropylene	BRL	mg/kg dry	0.0042	0.00023	1	8260B	1/26/15 14:03	MSC	P5A0345
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0042	0.00024	1	8260B	1/26/15 14:03	MSC	P5A0345
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0042	0.00054	1	8260B	1/26/15 14:03	MSC	P5A0345
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0042	0.00031	1	8260B	1/26/15 14:03	MSC	P5A0345
1,2,4-Trimethylbenzene	**0.25 E**	**mg/kg dry**	**0.0042**	**0.00032**	**1**	**8260B**	**1/26/15 14:03**	**MSC**	**P5A0345**

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-1
Prism Sample ID: 5010401-01
Prism Work Order: 5010401
Time Collected: 01/20/15 13:00
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dibromoethane	BRL	mg/kg dry	0.0042	0.00017	1	8260B	1/26/15 14:03	MSC	P5A0345
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0042	0.00020	1	8260B	1/26/15 14:03	MSC	P5A0345
1,2-Dichloroethane	BRL	mg/kg dry	0.0042	0.00025	1	8260B	1/26/15 14:03	MSC	P5A0345
1,2-Dichloropropane	BRL	mg/kg dry	0.0042	0.00026	1	8260B	1/26/15 14:03	MSC	P5A0345
1,3,5-Trimethylbenzene	**0.16**	**mg/kg dry**	**0.0042**	**0.00032**	**1**	**8260B**	**1/26/15 14:03**	**MSC**	**P5A0345**
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0042	0.00028	1	8260B	1/26/15 14:03	MSC	P5A0345
1,3-Dichloropropane	BRL	mg/kg dry	0.0042	0.00021	1	8260B	1/26/15 14:03	MSC	P5A0345
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0042	0.00017	1	8260B	1/26/15 14:03	MSC	P5A0345
2,2-Dichloropropane	BRL	mg/kg dry	0.0042	0.00020	1	8260B	1/26/15 14:03	MSC	P5A0345
2-Chlorotoluene	BRL	mg/kg dry	0.0042	0.00022	1	8260B	1/26/15 14:03	MSC	P5A0345
4-Chlorotoluene	BRL	mg/kg dry	0.0042	0.00025	1	8260B	1/26/15 14:03	MSC	P5A0345
4-Isopropyltoluene	**0.073**	**mg/kg dry**	**0.0042**	**0.00020**	**1**	**8260B**	**1/26/15 14:03**	**MSC**	**P5A0345**
Acetone	BRL	mg/kg dry	0.042	0.0010	1	8260B	1/26/15 14:03	MSC	P5A0345
Benzene	BRL	mg/kg dry	0.0025	0.00024	1	8260B	1/26/15 14:03	MSC	P5A0345
Bromobenzene	BRL	mg/kg dry	0.0042	0.00035	1	8260B	1/26/15 14:03	MSC	P5A0345
Bromochloromethane	BRL	mg/kg dry	0.0042	0.00023	1	8260B	1/26/15 14:03	MSC	P5A0345
Bromodichloromethane	BRL	mg/kg dry	0.0042	0.00023	1	8260B	1/26/15 14:03	MSC	P5A0345
Bromoform	BRL	mg/kg dry	0.0042	0.00048	1	8260B	1/26/15 14:03	MSC	P5A0345
Bromomethane	BRL	mg/kg dry	0.0084	0.00052	1	8260B	1/26/15 14:03	MSC	P5A0345
Carbon Tetrachloride	BRL	mg/kg dry	0.0042	0.00021	1	8260B	1/26/15 14:03	MSC	P5A0345
Chlorobenzene	BRL	mg/kg dry	0.0042	0.00022	1	8260B	1/26/15 14:03	MSC	P5A0345
Chloroethane	BRL	mg/kg dry	0.0084	0.00035	1	8260B	1/26/15 14:03	MSC	P5A0345
Chloroform	BRL	mg/kg dry	0.0042	0.00030	1	8260B	1/26/15 14:03	MSC	P5A0345
Chloromethane	BRL	mg/kg dry	0.0042	0.00028	1	8260B	1/26/15 14:03	MSC	P5A0345
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0042	0.00018	1	8260B	1/26/15 14:03	MSC	P5A0345
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0042	0.00014	1	8260B	1/26/15 14:03	MSC	P5A0345
Dibromochloromethane	BRL	mg/kg dry	0.0042	0.00017	1	8260B	1/26/15 14:03	MSC	P5A0345
Dichlorodifluoromethane	BRL	mg/kg dry	0.0042	0.00019	1	8260B	1/26/15 14:03	MSC	P5A0345
Ethylbenzene	**0.015**	**mg/kg dry**	**0.0042**	**0.00016**	**1**	**8260B**	**1/26/15 14:03**	**MSC**	**P5A0345**
Isopropyl Ether	BRL	mg/kg dry	0.0042	0.00017	1	8260B	1/26/15 14:03	MSC	P5A0345
Isopropylbenzene (Cumene)	**0.026**	**mg/kg dry**	**0.0042**	**0.00025**	**1**	**8260B**	**1/26/15 14:03**	**MSC**	**P5A0345**
m,p-Xylenes	**0.046**	**mg/kg dry**	**0.0084**	**0.00039**	**1**	**8260B**	**1/26/15 14:03**	**MSC**	**P5A0345**
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.042	0.00038	1	8260B	1/26/15 14:03	MSC	P5A0345
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.084	0.00038	1	8260B	1/26/15 14:03	MSC	P5A0345
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.042	0.00036	1	8260B	1/26/15 14:03	MSC	P5A0345
Methylene Chloride	BRL	mg/kg dry	0.0042	0.00024	1	8260B	1/26/15 14:03	MSC	P5A0345
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0084	0.00013	1	8260B	1/26/15 14:03	MSC	P5A0345
Naphthalene	**0.0040 J**	**mg/kg dry**	**0.0084**	**0.00013**	**1**	**8260B**	**1/26/15 14:03**	**MSC**	**P5A0345**
n-Butylbenzene	**0.082**	**mg/kg dry**	**0.0042**	**0.00021**	**1**	**8260B**	**1/26/15 14:03**	**MSC**	**P5A0345**
n-Propylbenzene	**0.048**	**mg/kg dry**	**0.0042**	**0.00025**	**1**	**8260B**	**1/26/15 14:03**	**MSC**	**P5A0345**
o-Xylene	**0.022**	**mg/kg dry**	**0.0042**	**0.00017**	**1**	**8260B**	**1/26/15 14:03**	**MSC**	**P5A0345**
sec-Butylbenzene	**0.086**	**mg/kg dry**	**0.0042**	**0.00020**	**1**	**8260B**	**1/26/15 14:03**	**MSC**	**P5A0345**
Styrene	BRL LH	mg/kg dry	0.0042	0.00025	1	8260B	1/26/15 14:03	MSC	P5A0345

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-1
Prism Sample ID: 5010401-01
Prism Work Order: 5010401
Time Collected: 01/20/15 13:00
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
tert-Butylbenzene	**0.0066**	**mg/kg dry**	**0.0042**	**0.00014**	**1**	**8260B**	**1/26/15 14:03**	**MSC**	**P5A0345**
Tetrachloroethylene	BRL	mg/kg dry	0.0042	0.00020	1	8260B	1/26/15 14:03	MSC	P5A0345
Toluene	BRL	mg/kg dry	0.0042	0.00024	1	8260B	1/26/15 14:03	MSC	P5A0345
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0042	0.00025	1	8260B	1/26/15 14:03	MSC	P5A0345
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0042	0.00022	1	8260B	1/26/15 14:03	MSC	P5A0345
Trichloroethylene	BRL	mg/kg dry	0.0042	0.00027	1	8260B	1/26/15 14:03	MSC	P5A0345
Trichlorofluoromethane	BRL	mg/kg dry	0.0042	0.00027	1	8260B	1/26/15 14:03	MSC	P5A0345
Vinyl acetate	BRL	mg/kg dry	0.021	0.00058	1	8260B	1/26/15 14:03	MSC	P5A0345
Vinyl chloride	BRL	mg/kg dry	0.0042	0.00020	1	8260B	1/26/15 14:03	MSC	P5A0345
Xylenes, total	**0.069**	**mg/kg dry**	**0.013**	**0.00079**	**1**	**8260B**	**1/26/15 14:03**	**MSC**	**P5A0345**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*74 %*	*70-130*
Dibromofluoromethane	*107 %*	*84-123*
Toluene-d8	*118 %*	*76-129*

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-2
Prism Sample ID: 5010401-02
Prism Work Order: 5010401
Time Collected: 01/20/15 14:30
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**88.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**1/27/15 16:15**	**MJO**	**P5A0380**
Semivolatile Organic Compounds by GC/MS									DM
1,2,4-Trichlorobenzene	BRL	mg/kg dry	1.9	0.29	5	8270D	2/2/15 21:33	KC	P5A0379
1,2-Dichlorobenzene	BRL	mg/kg dry	1.9	0.28	5	8270D	2/2/15 21:33	KC	P5A0379
1,3-Dichlorobenzene	BRL	mg/kg dry	1.9	0.26	5	8270D	2/2/15 21:33	KC	P5A0379
1,4-Dichlorobenzene	BRL	mg/kg dry	1.9	0.27	5	8270D	2/2/15 21:33	KC	P5A0379
1-Methylnaphthalene	**1.3 J**	**mg/kg dry**	**1.9**	**0.36**	**5**	**8270D**	**2/2/15 21:33**	**KC**	**P5A0379**
2,4,6-Trichlorophenol	BRL	mg/kg dry	1.9	0.35	5	8270D	2/2/15 21:33	KC	P5A0379
2,4-Dichlorophenol	BRL	mg/kg dry	1.9	0.36	5	8270D	2/2/15 21:33	KC	P5A0379
2,4-Dimethylphenol	BRL	mg/kg dry	1.9	0.28	5	8270D	2/2/15 21:33	KC	P5A0379
2,4-Dinitrophenol	BRL	mg/kg dry	1.9	0.26	5	8270D	2/2/15 21:33	KC	P5A0379
2,4-Dinitrotoluene	BRL	mg/kg dry	1.9	0.23	5	8270D	2/2/15 21:33	KC	P5A0379
2,6-Dinitrotoluene	BRL	mg/kg dry	1.9	0.25	5	8270D	2/2/15 21:33	KC	P5A0379
2-Chloronaphthalene	BRL	mg/kg dry	1.9	0.27	5	8270D	2/2/15 21:33	KC	P5A0379
2-Chlorophenol	BRL	mg/kg dry	1.9	0.26	5	8270D	2/2/15 21:33	KC	P5A0379
2-Methylnaphthalene	**2.3**	**mg/kg dry**	**1.9**	**0.30**	**5**	**8270D**	**2/2/15 21:33**	**KC**	**P5A0379**
2-Methylphenol	BRL	mg/kg dry	1.9	0.24	5	8270D	2/2/15 21:33	KC	P5A0379
2-Nitrophenol	BRL	mg/kg dry	1.9	0.34	5	8270D	2/2/15 21:33	KC	P5A0379
3,3'-Dichlorobenzidine	BRL	mg/kg dry	1.9	0.37	5	8270D	2/2/15 21:33	KC	P5A0379
3/4-Methylphenol	BRL	mg/kg dry	1.9	0.23	5	8270D	2/2/15 21:33	KC	P5A0379
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	1.9	0.28	5	8270D	2/2/15 21:33	KC	P5A0379
4-Bromophenyl phenyl ether	BRL	mg/kg dry	1.9	0.32	5	8270D	2/2/15 21:33	KC	P5A0379
4-Chloro-3-methylphenol	BRL	mg/kg dry	1.9	0.26	5	8270D	2/2/15 21:33	KC	P5A0379
4-Chloroaniline	BRL	mg/kg dry	1.9	0.22	5	8270D	2/2/15 21:33	KC	P5A0379
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	1.9	0.24	5	8270D	2/2/15 21:33	KC	P5A0379
4-Nitrophenol	BRL	mg/kg dry	1.9	0.29	5	8270D	2/2/15 21:33	KC	P5A0379
Acenaphthene	BRL	mg/kg dry	1.9	0.25	5	8270D	2/2/15 21:33	KC	P5A0379
Acenaphthylene	BRL	mg/kg dry	1.9	0.27	5	8270D	2/2/15 21:33	KC	P5A0379
Anthracene	BRL	mg/kg dry	1.9	0.30	5	8270D	2/2/15 21:33	KC	P5A0379
Azobenzene	BRL	mg/kg dry	1.9	0.25	5	8270D	2/2/15 21:33	KC	P5A0379
Benzo(a)anthracene	BRL	mg/kg dry	1.9	0.24	5	8270D	2/2/15 21:33	KC	P5A0379
Benzo(a)pyrene	BRL	mg/kg dry	1.9	0.20	5	8270D	2/2/15 21:33	KC	P5A0379
Benzo(b)fluoranthene	BRL	mg/kg dry	1.9	0.22	5	8270D	2/2/15 21:33	KC	P5A0379
Benzo(g,h,i)perylene	BRL	mg/kg dry	1.9	0.20	5	8270D	2/2/15 21:33	KC	P5A0379
Benzo(k)fluoranthene	BRL	mg/kg dry	1.9	0.24	5	8270D	2/2/15 21:33	KC	P5A0379
Benzoic Acid	BRL	mg/kg dry	1.9	0.16	5	8270D	2/2/15 21:33	KC	P5A0379
Benzyl alcohol	BRL	mg/kg dry	1.9	0.24	5	8270D	2/2/15 21:33	KC	P5A0379
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	1.9	0.32	5	8270D	2/2/15 21:33	KC	P5A0379
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	1.9	0.26	5	8270D	2/2/15 21:33	KC	P5A0379
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	1.9	0.32	5	8270D	2/2/15 21:33	KC	P5A0379
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	1.9	0.28	5	8270D	2/2/15 21:33	KC	P5A0379

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-2
Prism Sample ID: 5010401-02
Prism Work Order: 5010401
Time Collected: 01/20/15 14:30
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Butyl benzyl phthalate	BRL	mg/kg dry	1.9	0.26	5	8270D	2/2/15 21:33	KC	P5A0379
Chrysene	BRL	mg/kg dry	1.9	0.23	5	8270D	2/2/15 21:33	KC	P5A0379
Dibenzo(a,h)anthracene	BRL	mg/kg dry	1.9	0.23	5	8270D	2/2/15 21:33	KC	P5A0379
Dibenzofuran	BRL	mg/kg dry	1.9	0.28	5	8270D	2/2/15 21:33	KC	P5A0379
Diethyl phthalate	BRL	mg/kg dry	1.9	0.26	5	8270D	2/2/15 21:33	KC	P5A0379
Dimethyl phthalate	BRL	mg/kg dry	1.9	0.25	5	8270D	2/2/15 21:33	KC	P5A0379
Di-n-butyl phthalate	BRL	mg/kg dry	1.9	0.26	5	8270D	2/2/15 21:33	KC	P5A0379
Di-n-octyl phthalate	BRL	mg/kg dry	1.9	0.23	5	8270D	2/2/15 21:33	KC	P5A0379
Fluoranthene	BRL	mg/kg dry	1.9	0.24	5	8270D	2/2/15 21:33	KC	P5A0379
Fluorene	BRL	mg/kg dry	1.9	0.27	5	8270D	2/2/15 21:33	KC	P5A0379
Hexachlorobenzene	BRL	mg/kg dry	1.9	0.29	5	8270D	2/2/15 21:33	KC	P5A0379
Hexachlorobutadiene	BRL	mg/kg dry	1.9	0.33	5	8270D	2/2/15 21:33	KC	P5A0379
Hexachlorocyclopentadiene	BRL	mg/kg dry	1.9	0.33	5	8270D	2/2/15 21:33	KC	P5A0379
Hexachloroethane	BRL	mg/kg dry	1.9	0.31	5	8270D	2/2/15 21:33	KC	P5A0379
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	1.9	0.21	5	8270D	2/2/15 21:33	KC	P5A0379
Isophorone	BRL	mg/kg dry	1.9	0.25	5	8270D	2/2/15 21:33	KC	P5A0379
Naphthalene	**3.2**	**mg/kg dry**	**1.9**	**0.30**	**5**	**8270D**	**2/2/15 21:33**	**KC**	**P5A0379**
Nitrobenzene	BRL	mg/kg dry	1.9	0.26	5	8270D	2/2/15 21:33	KC	P5A0379
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	1.9	0.29	5	8270D	2/2/15 21:33	KC	P5A0379
N-Nitrosodiphenylamine	BRL	mg/kg dry	1.9	0.28	5	8270D	2/2/15 21:33	KC	P5A0379
Pentachlorophenol	BRL	mg/kg dry	1.9	0.22	5	8270D	2/2/15 21:33	KC	P5A0379
Phenanthrene	BRL	mg/kg dry	1.9	0.24	5	8270D	2/2/15 21:33	KC	P5A0379
Phenol	BRL	mg/kg dry	1.9	0.27	5	8270D	2/2/15 21:33	KC	P5A0379
Pyrene	BRL	mg/kg dry	1.9	0.25	5	8270D	2/2/15 21:33	KC	P5A0379

Surrogate	Recovery	Control Limits	
2,4,6-Tribromophenol	*94 %*	*39-132*	
2-Fluorobiphenyl	*105 %*	*44-115*	
2-Fluorophenol	*116 %*	*35-115*	*SR*
Nitrobenzene-d5	*525 %*	*37-122*	*SR*
Phenol-d5	*99 %*	*34-121*	
Terphenyl-d14	*117 %*	*54-127*	

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0046	0.00038	1	8260B	1/26/15 15:38	MSC	P5A0345
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0046	0.00022	1	8260B	1/26/15 15:38	MSC	P5A0345
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0046	0.00031	1	8260B	1/26/15 15:38	MSC	P5A0345
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0046	0.00041	1	8260B	1/26/15 15:38	MSC	P5A0345
1,1-Dichloroethane	BRL	mg/kg dry	0.0046	0.00013	1	8260B	1/26/15 15:38	MSC	P5A0345
1,1-Dichloroethylene	BRL	mg/kg dry	0.0046	0.00020	1	8260B	1/26/15 15:38	MSC	P5A0345
1,1-Dichloropropylene	BRL	mg/kg dry	0.0046	0.00025	1	8260B	1/26/15 15:38	MSC	P5A0345
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0046	0.00026	1	8260B	1/26/15 15:38	MSC	P5A0345
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0046	0.00059	1	8260B	1/26/15 15:38	MSC	P5A0345
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0046	0.00034	1	8260B	1/26/15 15:38	MSC	P5A0345
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0046	0.00035	1	8260B	1/26/15 15:38	MSC	P5A0345

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-2
Prism Sample ID: 5010401-02
Prism Work Order: 5010401
Time Collected: 01/20/15 14:30
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dibromoethane	BRL	mg/kg dry	0.0046	0.00018	1	8260B	1/26/15 15:38	MSC	P5A0345
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0046	0.00022	1	8260B	1/26/15 15:38	MSC	P5A0345
1,2-Dichloroethane	BRL	mg/kg dry	0.0046	0.00027	1	8260B	1/26/15 15:38	MSC	P5A0345
1,2-Dichloropropane	BRL	mg/kg dry	0.0046	0.00029	1	8260B	1/26/15 15:38	MSC	P5A0345
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0046	0.00035	1	8260B	1/26/15 15:38	MSC	P5A0345
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0046	0.00030	1	8260B	1/26/15 15:38	MSC	P5A0345
1,3-Dichloropropane	BRL	mg/kg dry	0.0046	0.00023	1	8260B	1/26/15 15:38	MSC	P5A0345
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0046	0.00018	1	8260B	1/26/15 15:38	MSC	P5A0345
2,2-Dichloropropane	BRL	mg/kg dry	0.0046	0.00022	1	8260B	1/26/15 15:38	MSC	P5A0345
2-Chlorotoluene	BRL	mg/kg dry	0.0046	0.00024	1	8260B	1/26/15 15:38	MSC	P5A0345
4-Chlorotoluene	BRL	mg/kg dry	0.0046	0.00027	1	8260B	1/26/15 15:38	MSC	P5A0345
4-Isopropyltoluene	BRL	mg/kg dry	0.0046	0.00022	1	8260B	1/26/15 15:38	MSC	P5A0345
Acetone	BRL	mg/kg dry	0.046	0.0011	1	8260B	1/26/15 15:38	MSC	P5A0345
Benzene	BRL	mg/kg dry	0.0028	0.00027	1	8260B	1/26/15 15:38	MSC	P5A0345
Bromobenzene	BRL	mg/kg dry	0.0046	0.00038	1	8260B	1/26/15 15:38	MSC	P5A0345
Bromochloromethane	BRL	mg/kg dry	0.0046	0.00025	1	8260B	1/26/15 15:38	MSC	P5A0345
Bromodichloromethane	BRL	mg/kg dry	0.0046	0.00026	1	8260B	1/26/15 15:38	MSC	P5A0345
Bromoform	BRL	mg/kg dry	0.0046	0.00052	1	8260B	1/26/15 15:38	MSC	P5A0345
Bromomethane	BRL	mg/kg dry	0.0092	0.00057	1	8260B	1/26/15 15:38	MSC	P5A0345
Carbon Tetrachloride	BRL	mg/kg dry	0.0046	0.00023	1	8260B	1/26/15 15:38	MSC	P5A0345
Chlorobenzene	BRL	mg/kg dry	0.0046	0.00024	1	8260B	1/26/15 15:38	MSC	P5A0345
Chloroethane	BRL	mg/kg dry	0.0092	0.00038	1	8260B	1/26/15 15:38	MSC	P5A0345
Chloroform	BRL	mg/kg dry	0.0046	0.00033	1	8260B	1/26/15 15:38	MSC	P5A0345
Chloromethane	BRL	mg/kg dry	0.0046	0.00031	1	8260B	1/26/15 15:38	MSC	P5A0345
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0046	0.00020	1	8260B	1/26/15 15:38	MSC	P5A0345
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0046	0.00015	1	8260B	1/26/15 15:38	MSC	P5A0345
Dibromochloromethane	BRL	mg/kg dry	0.0046	0.00019	1	8260B	1/26/15 15:38	MSC	P5A0345
Dichlorodifluoromethane	BRL	mg/kg dry	0.0046	0.00021	1	8260B	1/26/15 15:38	MSC	P5A0345
Ethylbenzene	BRL	mg/kg dry	0.0046	0.00018	1	8260B	1/26/15 15:38	MSC	P5A0345
Isopropyl Ether	BRL	mg/kg dry	0.0046	0.00019	1	8260B	1/26/15 15:38	MSC	P5A0345
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0046	0.00027	1	8260B	1/26/15 15:38	MSC	P5A0345
m,p-Xylenes	BRL	mg/kg dry	0.0092	0.00042	1	8260B	1/26/15 15:38	MSC	P5A0345
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.046	0.00042	1	8260B	1/26/15 15:38	MSC	P5A0345
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.092	0.00042	1	8260B	1/26/15 15:38	MSC	P5A0345
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.046	0.00039	1	8260B	1/26/15 15:38	MSC	P5A0345
Methylene Chloride	BRL	mg/kg dry	0.0046	0.00026	1	8260B	1/26/15 15:38	MSC	P5A0345
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0092	0.00015	1	8260B	1/26/15 15:38	MSC	P5A0345
Naphthalene	BRL	mg/kg dry	0.0092	0.00015	1	8260B	1/26/15 15:38	MSC	P5A0345
n-Butylbenzene	BRL	mg/kg dry	0.0046	0.00023	1	8260B	1/26/15 15:38	MSC	P5A0345
n-Propylbenzene	BRL	mg/kg dry	0.0046	0.00027	1	8260B	1/26/15 15:38	MSC	P5A0345
o-Xylene	BRL	mg/kg dry	0.0046	0.00019	1	8260B	1/26/15 15:38	MSC	P5A0345
sec-Butylbenzene	BRL	mg/kg dry	0.0046	0.00022	1	8260B	1/26/15 15:38	MSC	P5A0345
Styrene	BRL LH	mg/kg dry	0.0046	0.00028	1	8260B	1/26/15 15:38	MSC	P5A0345

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-2
Prism Sample ID: 5010401-02
Prism Work Order: 5010401
Time Collected: 01/20/15 14:30
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
tert-Butylbenzene	BRL	mg/kg dry	0.0046	0.00016	1	8260B	1/26/15 15:38	MSC	P5A0345
Tetrachloroethylene	BRL	mg/kg dry	0.0046	0.00022	1	8260B	1/26/15 15:38	MSC	P5A0345
Toluene	BRL	mg/kg dry	0.0046	0.00026	1	8260B	1/26/15 15:38	MSC	P5A0345
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0046	0.00028	1	8260B	1/26/15 15:38	MSC	P5A0345
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0046	0.00024	1	8260B	1/26/15 15:38	MSC	P5A0345
Trichloroethylene	BRL	mg/kg dry	0.0046	0.00030	1	8260B	1/26/15 15:38	MSC	P5A0345
Trichlorofluoromethane	BRL	mg/kg dry	0.0046	0.00030	1	8260B	1/26/15 15:38	MSC	P5A0345
Vinyl acetate	BRL	mg/kg dry	0.023	0.00063	1	8260B	1/26/15 15:38	MSC	P5A0345
Vinyl chloride	BRL	mg/kg dry	0.0046	0.00022	1	8260B	1/26/15 15:38	MSC	P5A0345
Xylenes, total	BRL	mg/kg dry	0.014	0.00086	1	8260B	1/26/15 15:38	MSC	P5A0345

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*107 %*	*70-130*
Dibromofluoromethane	*105 %*	*84-123*
Toluene-d8	*106 %*	*76-129*

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-3
Prism Sample ID: 5010401-03
Prism Work Order: 5010401
Time Collected: 01/20/15 10:45
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**78.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**1/27/15 16:15**	**MJO**	**P5A0380**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.42	0.066	1	8270D	2/2/15 21:54	KC	P5A0379
1,2-Dichlorobenzene	BRL	mg/kg dry	0.42	0.064	1	8270D	2/2/15 21:54	KC	P5A0379
1,3-Dichlorobenzene	BRL	mg/kg dry	0.42	0.059	1	8270D	2/2/15 21:54	KC	P5A0379
1,4-Dichlorobenzene	BRL	mg/kg dry	0.42	0.062	1	8270D	2/2/15 21:54	KC	P5A0379
1-Methylnaphthalene	BRL	mg/kg dry	0.42	0.081	1	8270D	2/2/15 21:54	KC	P5A0379
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.42	0.079	1	8270D	2/2/15 21:54	KC	P5A0379
2,4-Dichlorophenol	BRL	mg/kg dry	0.42	0.082	1	8270D	2/2/15 21:54	KC	P5A0379
2,4-Dimethylphenol	BRL	mg/kg dry	0.42	0.065	1	8270D	2/2/15 21:54	KC	P5A0379
2,4-Dinitrophenol	BRL	mg/kg dry	0.42	0.059	1	8270D	2/2/15 21:54	KC	P5A0379
2,4-Dinitrotoluene	BRL	mg/kg dry	0.42	0.051	1	8270D	2/2/15 21:54	KC	P5A0379
2,6-Dinitrotoluene	BRL	mg/kg dry	0.42	0.056	1	8270D	2/2/15 21:54	KC	P5A0379
2-Chloronaphthalene	BRL	mg/kg dry	0.42	0.061	1	8270D	2/2/15 21:54	KC	P5A0379
2-Chlorophenol	BRL	mg/kg dry	0.42	0.060	1	8270D	2/2/15 21:54	KC	P5A0379
2-Methylnaphthalene	BRL	mg/kg dry	0.42	0.067	1	8270D	2/2/15 21:54	KC	P5A0379
2-Methylphenol	BRL	mg/kg dry	0.42	0.054	1	8270D	2/2/15 21:54	KC	P5A0379
2-Nitrophenol	BRL	mg/kg dry	0.42	0.077	1	8270D	2/2/15 21:54	KC	P5A0379
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.42	0.083	1	8270D	2/2/15 21:54	KC	P5A0379
3/4-Methylphenol	BRL	mg/kg dry	0.42	0.052	1	8270D	2/2/15 21:54	KC	P5A0379
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.42	0.063	1	8270D	2/2/15 21:54	KC	P5A0379
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.42	0.072	1	8270D	2/2/15 21:54	KC	P5A0379
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.42	0.059	1	8270D	2/2/15 21:54	KC	P5A0379
4-Chloroaniline	BRL	mg/kg dry	0.42	0.051	1	8270D	2/2/15 21:54	KC	P5A0379
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.42	0.055	1	8270D	2/2/15 21:54	KC	P5A0379
4-Nitrophenol	BRL	mg/kg dry	0.42	0.065	1	8270D	2/2/15 21:54	KC	P5A0379
Acenaphthene	BRL	mg/kg dry	0.42	0.057	1	8270D	2/2/15 21:54	KC	P5A0379
Acenaphthylene	BRL	mg/kg dry	0.42	0.061	1	8270D	2/2/15 21:54	KC	P5A0379
Anthracene	BRL	mg/kg dry	0.42	0.068	1	8270D	2/2/15 21:54	KC	P5A0379
Azobenzene	BRL	mg/kg dry	0.42	0.056	1	8270D	2/2/15 21:54	KC	P5A0379
Benzo(a)anthracene	BRL	mg/kg dry	0.42	0.055	1	8270D	2/2/15 21:54	KC	P5A0379
Benzo(a)pyrene	BRL	mg/kg dry	0.42	0.046	1	8270D	2/2/15 21:54	KC	P5A0379
Benzo(b)fluoranthene	BRL	mg/kg dry	0.42	0.049	1	8270D	2/2/15 21:54	KC	P5A0379
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.42	0.046	1	8270D	2/2/15 21:54	KC	P5A0379
Benzo(k)fluoranthene	BRL	mg/kg dry	0.42	0.055	1	8270D	2/2/15 21:54	KC	P5A0379
Benzoic Acid	BRL	mg/kg dry	0.42	0.036	1	8270D	2/2/15 21:54	KC	P5A0379
Benzyl alcohol	BRL	mg/kg dry	0.42	0.056	1	8270D	2/2/15 21:54	KC	P5A0379
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.42	0.073	1	8270D	2/2/15 21:54	KC	P5A0379
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.42	0.060	1	8270D	2/2/15 21:54	KC	P5A0379
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.42	0.072	1	8270D	2/2/15 21:54	KC	P5A0379
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.42	0.063	1	8270D	2/2/15 21:54	KC	P5A0379

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-3
Prism Sample ID: 5010401-03
Prism Work Order: 5010401
Time Collected: 01/20/15 10:45
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Butyl benzyl phthalate	BRL	mg/kg dry	0.42	0.060	1	8270D	2/2/15 21:54	KC	P5A0379
Chrysene	BRL	mg/kg dry	0.42	0.053	1	8270D	2/2/15 21:54	KC	P5A0379
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.42	0.051	1	8270D	2/2/15 21:54	KC	P5A0379
Dibenzofuran	BRL	mg/kg dry	0.42	0.064	1	8270D	2/2/15 21:54	KC	P5A0379
Diethyl phthalate	BRL	mg/kg dry	0.42	0.058	1	8270D	2/2/15 21:54	KC	P5A0379
Dimethyl phthalate	BRL	mg/kg dry	0.42	0.056	1	8270D	2/2/15 21:54	KC	P5A0379
Di-n-butyl phthalate	BRL	mg/kg dry	0.42	0.060	1	8270D	2/2/15 21:54	KC	P5A0379
Di-n-octyl phthalate	BRL	mg/kg dry	0.42	0.052	1	8270D	2/2/15 21:54	KC	P5A0379
Fluoranthene	BRL	mg/kg dry	0.42	0.054	1	8270D	2/2/15 21:54	KC	P5A0379
Fluorene	BRL	mg/kg dry	0.42	0.061	1	8270D	2/2/15 21:54	KC	P5A0379
Hexachlorobenzene	BRL	mg/kg dry	0.42	0.067	1	8270D	2/2/15 21:54	KC	P5A0379
Hexachlorobutadiene	BRL	mg/kg dry	0.42	0.076	1	8270D	2/2/15 21:54	KC	P5A0379
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.42	0.075	1	8270D	2/2/15 21:54	KC	P5A0379
Hexachloroethane	BRL	mg/kg dry	0.42	0.071	1	8270D	2/2/15 21:54	KC	P5A0379
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.42	0.048	1	8270D	2/2/15 21:54	KC	P5A0379
Isophorone	BRL	mg/kg dry	0.42	0.057	1	8270D	2/2/15 21:54	KC	P5A0379
Naphthalene	BRL	mg/kg dry	0.42	0.068	1	8270D	2/2/15 21:54	KC	P5A0379
Nitrobenzene	BRL	mg/kg dry	0.42	0.060	1	8270D	2/2/15 21:54	KC	P5A0379
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.42	0.066	1	8270D	2/2/15 21:54	KC	P5A0379
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.42	0.064	1	8270D	2/2/15 21:54	KC	P5A0379
Pentachlorophenol	BRL	mg/kg dry	0.42	0.050	1	8270D	2/2/15 21:54	KC	P5A0379
Phenanthrene	BRL	mg/kg dry	0.42	0.055	1	8270D	2/2/15 21:54	KC	P5A0379
Phenol	BRL	mg/kg dry	0.42	0.062	1	8270D	2/2/15 21:54	KC	P5A0379
Pyrene	BRL	mg/kg dry	0.42	0.056	1	8270D	2/2/15 21:54	KC	P5A0379

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*101 %*	*39-132*
2-Fluorobiphenyl	*94 %*	*44-115*
2-Fluorophenol	*96 %*	*35-115*
Nitrobenzene-d5	*85 %*	*37-122*
Phenol-d5	*88 %*	*34-121*
Terphenyl-d14	*112 %*	*54-127*

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0056	0.00046	1	8260B	1/26/15 16:02	MSC	P5A0345
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0056	0.00027	1	8260B	1/26/15 16:02	MSC	P5A0345
1,1,2,2-Tetrachloroethane	BRL IN	mg/kg dry	0.0056	0.00038	1	8260B	1/26/15 16:02	MSC	P5A0345
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0056	0.00050	1	8260B	1/26/15 16:02	MSC	P5A0345
1,1-Dichloroethane	BRL	mg/kg dry	0.0056	0.00016	1	8260B	1/26/15 16:02	MSC	P5A0345
1,1-Dichloroethylene	BRL	mg/kg dry	0.0056	0.00025	1	8260B	1/26/15 16:02	MSC	P5A0345
1,1-Dichloropropylene	BRL	mg/kg dry	0.0056	0.00031	1	8260B	1/26/15 16:02	MSC	P5A0345
1,2,3-Trichlorobenzene	BRL IN	mg/kg dry	0.0056	0.00032	1	8260B	1/26/15 16:02	MSC	P5A0345
1,2,3-Trichloropropane	BRL IN	mg/kg dry	0.0056	0.00072	1	8260B	1/26/15 16:02	MSC	P5A0345
1,2,4-Trichlorobenzene	BRL IN	mg/kg dry	0.0056	0.00042	1	8260B	1/26/15 16:02	MSC	P5A0345
1,2,4-Trimethylbenzene	See 8260ML IH	mg/kg dry	0.0056	0.00043	1	8260B	1/26/15 16:02	MSC	P5A0345

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-3
Prism Sample ID: 5010401-03
Prism Work Order: 5010401
Time Collected: 01/20/15 10:45
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dibromoethane	BRL	mg/kg dry	0.0056	0.00023	1	8260B	1/26/15 16:02	MSC	P5A0345
1,2-Dichlorobenzene	BRL IN	mg/kg dry	0.0056	0.00026	1	8260B	1/26/15 16:02	MSC	P5A0345
1,2-Dichloroethane	BRL	mg/kg dry	0.0056	0.00033	1	8260B	1/26/15 16:02	MSC	P5A0345
1,2-Dichloropropane	BRL	mg/kg dry	0.0056	0.00035	1	8260B	1/26/15 16:02	MSC	P5A0345
1,3,5-Trimethylbenzene	See 8260ML IH	mg/kg dry	0.0056	0.00042	1	8260B	1/26/15 16:02	MSC	P5A0345
1,3-Dichlorobenzene	BRL IN	mg/kg dry	0.0056	0.00037	1	8260B	1/26/15 16:02	MSC	P5A0345
1,3-Dichloropropane	BRL	mg/kg dry	0.0056	0.00028	1	8260B	1/26/15 16:02	MSC	P5A0345
1,4-Dichlorobenzene	BRL IN	mg/kg dry	0.0056	0.00022	1	8260B	1/26/15 16:02	MSC	P5A0345
2,2-Dichloropropane	BRL	mg/kg dry	0.0056	0.00027	1	8260B	1/26/15 16:02	MSC	P5A0345
2-Chlorotoluene	BRL IN	mg/kg dry	0.0056	0.00029	1	8260B	1/26/15 16:02	MSC	P5A0345
4-Chlorotoluene	BRL IN	mg/kg dry	0.0056	0.00033	1	8260B	1/26/15 16:02	MSC	P5A0345
4-Isopropyltoluene	See 8260ML IH	mg/kg dry	0.0056	0.00027	1	8260B	1/26/15 16:02	MSC	P5A0345
Acetone	BRL	mg/kg dry	0.056	0.0014	1	8260B	1/26/15 16:02	MSC	P5A0345
Benzene	BRL	mg/kg dry	0.0034	0.00033	1	8260B	1/26/15 16:02	MSC	P5A0345
Bromobenzene	BRL IN	mg/kg dry	0.0056	0.00047	1	8260B	1/26/15 16:02	MSC	P5A0345
Bromochloromethane	BRL	mg/kg dry	0.0056	0.00031	1	8260B	1/26/15 16:02	MSC	P5A0345
Bromodichloromethane	BRL	mg/kg dry	0.0056	0.00031	1	8260B	1/26/15 16:02	MSC	P5A0345
Bromoform	BRL	mg/kg dry	0.0056	0.00064	1	8260B	1/26/15 16:02	MSC	P5A0345
Bromomethane	BRL	mg/kg dry	0.011	0.00069	1	8260B	1/26/15 16:02	MSC	P5A0345
Carbon Tetrachloride	BRL	mg/kg dry	0.0056	0.00028	1	8260B	1/26/15 16:02	MSC	P5A0345
Chlorobenzene	BRL	mg/kg dry	0.0056	0.00030	1	8260B	1/26/15 16:02	MSC	P5A0345
Chloroethane	BRL	mg/kg dry	0.011	0.00047	1	8260B	1/26/15 16:02	MSC	P5A0345
Chloroform	BRL	mg/kg dry	0.0056	0.00040	1	8260B	1/26/15 16:02	MSC	P5A0345
Chloromethane	BRL	mg/kg dry	0.0056	0.00038	1	8260B	1/26/15 16:02	MSC	P5A0345
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0056	0.00024	1	8260B	1/26/15 16:02	MSC	P5A0345
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0056	0.00019	1	8260B	1/26/15 16:02	MSC	P5A0345
Dibromochloromethane	BRL	mg/kg dry	0.0056	0.00023	1	8260B	1/26/15 16:02	MSC	P5A0345
Dichlorodifluoromethane	BRL	mg/kg dry	0.0056	0.00025	1	8260B	1/26/15 16:02	MSC	P5A0345
Ethylbenzene	**0.15**	**mg/kg dry**	**0.0056**	**0.00022**	**1**	**8260B**	**1/26/15 16:02**	**MSC**	**P5A0345**
Isopropyl Ether	BRL	mg/kg dry	0.0056	0.00023	1	8260B	1/26/15 16:02	MSC	P5A0345
Isopropylbenzene (Cumene)	See 8260ML IH	mg/kg dry	0.0056	0.00033	1	8260B	1/26/15 16:02	MSC	P5A0345
m,p-Xylenes	See 8260ML	mg/kg dry	0.011	0.00052	1	8260B	1/26/15 16:02	MSC	P5A0345
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.056	0.00051	1	8260B	1/26/15 16:02	MSC	P5A0345
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00051	1	8260B	1/26/15 16:02	MSC	P5A0345
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.056	0.00048	1	8260B	1/26/15 16:02	MSC	P5A0345
Methylene Chloride	BRL	mg/kg dry	0.0056	0.00032	1	8260B	1/26/15 16:02	MSC	P5A0345
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00018	1	8260B	1/26/15 16:02	MSC	P5A0345
Naphthalene	**0.12 IH**	**mg/kg dry**	**0.011**	**0.00018**	**1**	**8260B**	**1/26/15 16:02**	**MSC**	**P5A0345**
n-Butylbenzene	See 8260ML IH	mg/kg dry	0.0056	0.00029	1	8260B	1/26/15 16:02	MSC	P5A0345
n-Propylbenzene	See 8260ML IH	mg/kg dry	0.0056	0.00033	1	8260B	1/26/15 16:02	MSC	P5A0345
o-Xylene	**0.062**	**mg/kg dry**	**0.0056**	**0.00023**	**1**	**8260B**	**1/26/15 16:02**	**MSC**	**P5A0345**
sec-Butylbenzene	See 8260ML IH	mg/kg dry	0.0056	0.00027	1	8260B	1/26/15 16:02	MSC	P5A0345
Styrene	BRL LH	mg/kg dry	0.0056	0.00034	1	8260B	1/26/15 16:02	MSC	P5A0345

Mid-Atlantic Associates, Inc. - Raleigh
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Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-3
Prism Sample ID: 5010401-03
Prism Work Order: 5010401
Time Collected: 01/20/15 10:45
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
tert-Butylbenzene	See 8260ML IH	mg/kg dry	0.0056	0.00019	1	8260B	1/26/15 16:02	MSC	P5A0345
Tetrachloroethylene	BRL	mg/kg dry	0.0056	0.00027	1	8260B	1/26/15 16:02	MSC	P5A0345
Toluene	BRL	mg/kg dry	0.0056	0.00032	1	8260B	1/26/15 16:02	MSC	P5A0345
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0056	0.00034	1	8260B	1/26/15 16:02	MSC	P5A0345
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0056	0.00030	1	8260B	1/26/15 16:02	MSC	P5A0345
Trichloroethylene	BRL	mg/kg dry	0.0056	0.00036	1	8260B	1/26/15 16:02	MSC	P5A0345
Trichlorofluoromethane	BRL	mg/kg dry	0.0056	0.00036	1	8260B	1/26/15 16:02	MSC	P5A0345
Vinyl acetate	BRL	mg/kg dry	0.028	0.00077	1	8260B	1/26/15 16:02	MSC	P5A0345
Vinyl chloride	BRL	mg/kg dry	0.0056	0.00027	1	8260B	1/26/15 16:02	MSC	P5A0345
Xylenes, total	See 8260ML	mg/kg dry	0.017	0.0011	1	8260B	1/26/15 16:02	MSC	P5A0345

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*309 %*	*70-130*	*SR*
Dibromofluoromethane	*107 %*	*84-123*	
Toluene-d8	*180 %*	*76-129*	*SR*

Volatile Organic Compounds by GC/MS (Medium Level)

1,2,4-Trimethylbenzene	**63**	**mg/kg dry**	**4.7**	**0.32**	**1000**	**8260B**	**1/28/15 13:42**	**MSC**	**P5A0395**
1,3,5-Trimethylbenzene	**31**	**mg/kg dry**	**4.7**	**0.48**	**1000**	**8260B**	**1/28/15 13:42**	**MSC**	**P5A0395**
4-Isopropyltoluene	**13**	**mg/kg dry**	**4.7**	**0.30**	**1000**	**8260B**	**1/28/15 13:42**	**MSC**	**P5A0395**
Isopropylbenzene (Cumene)	**1.2**	**mg/kg dry**	**0.23**	**0.014**	**50**	**8260B**	**1/28/15 13:05**	**MSC**	**P5A0395**
m,p-Xylenes	**1.2**	**mg/kg dry**	**0.47**	**0.034**	**50**	**8260B**	**1/28/15 13:05**	**MSC**	**P5A0395**
n-Butylbenzene	**7.8**	**mg/kg dry**	**4.7**	**0.29**	**1000**	**8260B**	**1/28/15 13:42**	**MSC**	**P5A0395**
n-Propylbenzene	**2.9**	**mg/kg dry**	**0.23**	**0.014**	**50**	**8260B**	**1/28/15 13:05**	**MSC**	**P5A0395**
sec-Butylbenzene	**3.7**	**mg/kg dry**	**0.23**	**0.019**	**50**	**8260B**	**1/28/15 13:05**	**MSC**	**P5A0395**
tert-Butylbenzene	**0.92**	**mg/kg dry**	**0.23**	**0.013**	**50**	**8260B**	**1/28/15 13:05**	**MSC**	**P5A0395**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*128 %*	*70-130*
Dibromofluoromethane	*107 %*	*70-130*
Toluene-d8	*107 %*	*70-130*

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-4
Prism Sample ID: 5010401-04
Prism Work Order: 5010401
Time Collected: 01/20/15 11:15
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**82.0**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**1/27/15 16:15**	**MJO**	**P5A0380**
Semivolatile Organic Compounds by GC/MS									DM
1,2,4-Trichlorobenzene	BRL	mg/kg dry	4.0	0.63	10	8270D	2/2/15 22:15	KC	P5A0379
1,2-Dichlorobenzene	BRL	mg/kg dry	4.0	0.61	10	8270D	2/2/15 22:15	KC	P5A0379
1,3-Dichlorobenzene	BRL	mg/kg dry	4.0	0.57	10	8270D	2/2/15 22:15	KC	P5A0379
1,4-Dichlorobenzene	BRL	mg/kg dry	4.0	0.59	10	8270D	2/2/15 22:15	KC	P5A0379
1-Methylnaphthalene	BRL	mg/kg dry	4.0	0.78	10	8270D	2/2/15 22:15	KC	P5A0379
2,4,6-Trichlorophenol	BRL	mg/kg dry	4.0	0.75	10	8270D	2/2/15 22:15	KC	P5A0379
2,4-Dichlorophenol	BRL	mg/kg dry	4.0	0.78	10	8270D	2/2/15 22:15	KC	P5A0379
2,4-Dimethylphenol	BRL	mg/kg dry	4.0	0.62	10	8270D	2/2/15 22:15	KC	P5A0379
2,4-Dinitrophenol	BRL	mg/kg dry	4.0	0.56	10	8270D	2/2/15 22:15	KC	P5A0379
2,4-Dinitrotoluene	BRL	mg/kg dry	4.0	0.49	10	8270D	2/2/15 22:15	KC	P5A0379
2,6-Dinitrotoluene	BRL	mg/kg dry	4.0	0.54	10	8270D	2/2/15 22:15	KC	P5A0379
2-Chloronaphthalene	BRL	mg/kg dry	4.0	0.58	10	8270D	2/2/15 22:15	KC	P5A0379
2-Chlorophenol	BRL	mg/kg dry	4.0	0.57	10	8270D	2/2/15 22:15	KC	P5A0379
2-Methylnaphthalene	BRL	mg/kg dry	4.0	0.64	10	8270D	2/2/15 22:15	KC	P5A0379
2-Methylphenol	BRL	mg/kg dry	4.0	0.52	10	8270D	2/2/15 22:15	KC	P5A0379
2-Nitrophenol	BRL	mg/kg dry	4.0	0.73	10	8270D	2/2/15 22:15	KC	P5A0379
3,3'-Dichlorobenzidine	BRL	mg/kg dry	4.0	0.79	10	8270D	2/2/15 22:15	KC	P5A0379
3/4-Methylphenol	BRL	mg/kg dry	4.0	0.50	10	8270D	2/2/15 22:15	KC	P5A0379
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	4.0	0.60	10	8270D	2/2/15 22:15	KC	P5A0379
4-Bromophenyl phenyl ether	BRL	mg/kg dry	4.0	0.69	10	8270D	2/2/15 22:15	KC	P5A0379
4-Chloro-3-methylphenol	BRL	mg/kg dry	4.0	0.56	10	8270D	2/2/15 22:15	KC	P5A0379
4-Chloroaniline	BRL	mg/kg dry	4.0	0.48	10	8270D	2/2/15 22:15	KC	P5A0379
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	4.0	0.52	10	8270D	2/2/15 22:15	KC	P5A0379
4-Nitrophenol	BRL	mg/kg dry	4.0	0.62	10	8270D	2/2/15 22:15	KC	P5A0379
Acenaphthene	BRL	mg/kg dry	4.0	0.55	10	8270D	2/2/15 22:15	KC	P5A0379
Acenaphthylene	BRL	mg/kg dry	4.0	0.58	10	8270D	2/2/15 22:15	KC	P5A0379
Anthracene	BRL	mg/kg dry	4.0	0.65	10	8270D	2/2/15 22:15	KC	P5A0379
Azobenzene	BRL	mg/kg dry	4.0	0.53	10	8270D	2/2/15 22:15	KC	P5A0379
Benzo(a)anthracene	BRL	mg/kg dry	4.0	0.53	10	8270D	2/2/15 22:15	KC	P5A0379
Benzo(a)pyrene	BRL	mg/kg dry	4.0	0.44	10	8270D	2/2/15 22:15	KC	P5A0379
Benzo(b)fluoranthene	BRL	mg/kg dry	4.0	0.47	10	8270D	2/2/15 22:15	KC	P5A0379
Benzo(g,h,i)perylene	BRL	mg/kg dry	4.0	0.44	10	8270D	2/2/15 22:15	KC	P5A0379
Benzo(k)fluoranthene	BRL	mg/kg dry	4.0	0.53	10	8270D	2/2/15 22:15	KC	P5A0379
Benzoic Acid	BRL	mg/kg dry	4.0	0.34	10	8270D	2/2/15 22:15	KC	P5A0379
Benzyl alcohol	BRL	mg/kg dry	4.0	0.53	10	8270D	2/2/15 22:15	KC	P5A0379
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	4.0	0.70	10	8270D	2/2/15 22:15	KC	P5A0379
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	4.0	0.57	10	8270D	2/2/15 22:15	KC	P5A0379
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	4.0	0.69	10	8270D	2/2/15 22:15	KC	P5A0379
Bis(2-Ethylhexyl)phthalate	**5.7**	**mg/kg dry**	**4.0**	**0.60**	**10**	**8270D**	**2/2/15 22:15**	**KC**	**P5A0379**

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Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-4
Prism Sample ID: 5010401-04
Prism Work Order: 5010401
Time Collected: 01/20/15 11:15
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Butyl benzyl phthalate	BRL	mg/kg dry	4.0	0.57	10	8270D	2/2/15 22:15	KC	P5A0379
Chrysene	BRL	mg/kg dry	4.0	0.51	10	8270D	2/2/15 22:15	KC	P5A0379
Dibenzo(a,h)anthracene	BRL	mg/kg dry	4.0	0.49	10	8270D	2/2/15 22:15	KC	P5A0379
Dibenzofuran	BRL	mg/kg dry	4.0	0.61	10	8270D	2/2/15 22:15	KC	P5A0379
Diethyl phthalate	BRL	mg/kg dry	4.0	0.55	10	8270D	2/2/15 22:15	KC	P5A0379
Dimethyl phthalate	BRL	mg/kg dry	4.0	0.53	10	8270D	2/2/15 22:15	KC	P5A0379
Di-n-butyl phthalate	BRL	mg/kg dry	4.0	0.57	10	8270D	2/2/15 22:15	KC	P5A0379
Di-n-octyl phthalate	BRL	mg/kg dry	4.0	0.49	10	8270D	2/2/15 22:15	KC	P5A0379
Fluoranthene	BRL	mg/kg dry	4.0	0.51	10	8270D	2/2/15 22:15	KC	P5A0379
Fluorene	BRL	mg/kg dry	4.0	0.58	10	8270D	2/2/15 22:15	KC	P5A0379
Hexachlorobenzene	BRL	mg/kg dry	4.0	0.64	10	8270D	2/2/15 22:15	KC	P5A0379
Hexachlorobutadiene	BRL	mg/kg dry	4.0	0.72	10	8270D	2/2/15 22:15	KC	P5A0379
Hexachlorocyclopentadiene	BRL	mg/kg dry	4.0	0.72	10	8270D	2/2/15 22:15	KC	P5A0379
Hexachloroethane	BRL	mg/kg dry	4.0	0.67	10	8270D	2/2/15 22:15	KC	P5A0379
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	4.0	0.46	10	8270D	2/2/15 22:15	KC	P5A0379
Isophorone	BRL	mg/kg dry	4.0	0.54	10	8270D	2/2/15 22:15	KC	P5A0379
Naphthalene	**3.7 J**	**mg/kg dry**	**4.0**	**0.65**	**10**	**8270D**	**2/2/15 22:15**	**KC**	**P5A0379**
Nitrobenzene	BRL	mg/kg dry	4.0	0.57	10	8270D	2/2/15 22:15	KC	P5A0379
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	4.0	0.63	10	8270D	2/2/15 22:15	KC	P5A0379
N-Nitrosodiphenylamine	BRL	mg/kg dry	4.0	0.61	10	8270D	2/2/15 22:15	KC	P5A0379
Pentachlorophenol	BRL	mg/kg dry	4.0	0.48	10	8270D	2/2/15 22:15	KC	P5A0379
Phenanthrene	BRL	mg/kg dry	4.0	0.52	10	8270D	2/2/15 22:15	KC	P5A0379
Phenol	BRL	mg/kg dry	4.0	0.59	10	8270D	2/2/15 22:15	KC	P5A0379
Pyrene	BRL	mg/kg dry	4.0	0.53	10	8270D	2/2/15 22:15	KC	P5A0379

Surrogate	Recovery	Control Limits	
2,4,6-Tribromophenol	*89 %*	*39-132*	
2-Fluorobiphenyl	*94 %*	*44-115*	
2-Fluorophenol	*113 %*	*35-115*	
Nitrobenzene-d5	*22 %*	*37-122*	*SR*
Phenol-d5	*101 %*	*34-121*	
Terphenyl-d14	*110 %*	*54-127*	

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0049	0.00040	1	8260B	1/26/15 16:26	MSC	P5A0345
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0049	0.00023	1	8260B	1/26/15 16:26	MSC	P5A0345
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0049	0.00033	1	8260B	1/26/15 16:26	MSC	P5A0345
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0049	0.00043	1	8260B	1/26/15 16:26	MSC	P5A0345
1,1-Dichloroethane	BRL	mg/kg dry	0.0049	0.00013	1	8260B	1/26/15 16:26	MSC	P5A0345
1,1-Dichloroethylene	BRL	mg/kg dry	0.0049	0.00021	1	8260B	1/26/15 16:26	MSC	P5A0345
1,1-Dichloropropylene	BRL	mg/kg dry	0.0049	0.00027	1	8260B	1/26/15 16:26	MSC	P5A0345
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0049	0.00028	1	8260B	1/26/15 16:26	MSC	P5A0345
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0049	0.00062	1	8260B	1/26/15 16:26	MSC	P5A0345
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0049	0.00036	1	8260B	1/26/15 16:26	MSC	P5A0345
1,2,4-Trimethylbenzene	See 8260ML	mg/kg dry	0.0049	0.00037	1	8260B	1/26/15 16:26	MSC	P5A0345

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-4
Prism Sample ID: 5010401-04
Prism Work Order: 5010401
Time Collected: 01/20/15 11:15
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dibromoethane	BRL	mg/kg dry	0.0049	0.00020	1	8260B	1/26/15 16:26	MSC	P5A0345
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0049	0.00023	1	8260B	1/26/15 16:26	MSC	P5A0345
1,2-Dichloroethane	BRL	mg/kg dry	0.0049	0.00029	1	8260B	1/26/15 16:26	MSC	P5A0345
1,2-Dichloropropane	BRL	mg/kg dry	0.0049	0.00030	1	8260B	1/26/15 16:26	MSC	P5A0345
1,3,5-Trimethylbenzene	See 8260ML	mg/kg dry	0.0049	0.00037	1	8260B	1/26/15 16:26	MSC	P5A0345
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0049	0.00032	1	8260B	1/26/15 16:26	MSC	P5A0345
1,3-Dichloropropane	BRL	mg/kg dry	0.0049	0.00024	1	8260B	1/26/15 16:26	MSC	P5A0345
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0049	0.00019	1	8260B	1/26/15 16:26	MSC	P5A0345
2,2-Dichloropropane	BRL	mg/kg dry	0.0049	0.00023	1	8260B	1/26/15 16:26	MSC	P5A0345
2-Chlorotoluene	BRL	mg/kg dry	0.0049	0.00025	1	8260B	1/26/15 16:26	MSC	P5A0345
4-Chlorotoluene	BRL	mg/kg dry	0.0049	0.00029	1	8260B	1/26/15 16:26	MSC	P5A0345
4-Isopropyltoluene	See 8260ML	mg/kg dry	0.0049	0.00023	1	8260B	1/26/15 16:26	MSC	P5A0345
Acetone	BRL	mg/kg dry	0.049	0.0012	1	8260B	1/26/15 16:26	MSC	P5A0345
Benzene	BRL	mg/kg dry	0.0029	0.00028	1	8260B	1/26/15 16:26	MSC	P5A0345
Bromobenzene	**0.036**	**mg/kg dry**	**0.0049**	**0.00040**	**1**	**8260B**	**1/26/15 16:26**	**MSC**	**P5A0345**
Bromochloromethane	BRL	mg/kg dry	0.0049	0.00027	1	8260B	1/26/15 16:26	MSC	P5A0345
Bromodichloromethane	BRL	mg/kg dry	0.0049	0.00027	1	8260B	1/26/15 16:26	MSC	P5A0345
Bromoform	BRL	mg/kg dry	0.0049	0.00055	1	8260B	1/26/15 16:26	MSC	P5A0345
Bromomethane	BRL	mg/kg dry	0.0097	0.00060	1	8260B	1/26/15 16:26	MSC	P5A0345
Carbon Tetrachloride	BRL	mg/kg dry	0.0049	0.00024	1	8260B	1/26/15 16:26	MSC	P5A0345
Chlorobenzene	BRL	mg/kg dry	0.0049	0.00026	1	8260B	1/26/15 16:26	MSC	P5A0345
Chloroethane	BRL	mg/kg dry	0.0097	0.00040	1	8260B	1/26/15 16:26	MSC	P5A0345
Chloroform	BRL	mg/kg dry	0.0049	0.00035	1	8260B	1/26/15 16:26	MSC	P5A0345
Chloromethane	BRL	mg/kg dry	0.0049	0.00033	1	8260B	1/26/15 16:26	MSC	P5A0345
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0049	0.00021	1	8260B	1/26/15 16:26	MSC	P5A0345
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0049	0.00016	1	8260B	1/26/15 16:26	MSC	P5A0345
Dibromochloromethane	BRL	mg/kg dry	0.0049	0.00020	1	8260B	1/26/15 16:26	MSC	P5A0345
Dichlorodifluoromethane	BRL	mg/kg dry	0.0049	0.00022	1	8260B	1/26/15 16:26	MSC	P5A0345
Ethylbenzene	**0.15**	**mg/kg dry**	**0.0049**	**0.00019**	**1**	**8260B**	**1/26/15 16:26**	**MSC**	**P5A0345**
Isopropyl Ether	BRL	mg/kg dry	0.0049	0.00020	1	8260B	1/26/15 16:26	MSC	P5A0345
Isopropylbenzene (Cumene)	**0.16**	**mg/kg dry**	**0.0049**	**0.00029**	**1**	**8260B**	**1/26/15 16:26**	**MSC**	**P5A0345**
m,p-Xylenes	See 8260ML	mg/kg dry	0.0097	0.00045	1	8260B	1/26/15 16:26	MSC	P5A0345
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.049	0.00044	1	8260B	1/26/15 16:26	MSC	P5A0345
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.097	0.00044	1	8260B	1/26/15 16:26	MSC	P5A0345
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.049	0.00041	1	8260B	1/26/15 16:26	MSC	P5A0345
Methylene Chloride	BRL	mg/kg dry	0.0049	0.00027	1	8260B	1/26/15 16:26	MSC	P5A0345
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0097	0.00016	1	8260B	1/26/15 16:26	MSC	P5A0345
Naphthalene	**0.045**	**mg/kg dry**	**0.0097**	**0.00015**	**1**	**8260B**	**1/26/15 16:26**	**MSC**	**P5A0345**
n-Butylbenzene	**0.13**	**mg/kg dry**	**0.0049**	**0.00025**	**1**	**8260B**	**1/26/15 16:26**	**MSC**	**P5A0345**
n-Propylbenzene	See 8260ML	mg/kg dry	0.0049	0.00029	1	8260B	1/26/15 16:26	MSC	P5A0345
o-Xylene	BRL	mg/kg dry	0.0049	0.00020	1	8260B	1/26/15 16:26	MSC	P5A0345
sec-Butylbenzene	See 8260ML	mg/kg dry	0.0049	0.00023	1	8260B	1/26/15 16:26	MSC	P5A0345
Styrene	BRL LH	mg/kg dry	0.0049	0.00029	1	8260B	1/26/15 16:26	MSC	P5A0345

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-4
Prism Sample ID: 5010401-04
Prism Work Order: 5010401
Time Collected: 01/20/15 11:15
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
tert-Butylbenzene	**0.069**	**mg/kg dry**	**0.0049**	**0.00016**	**1**	**8260B**	**1/26/15 16:26**	**MSC**	**P5A0345**
Tetrachloroethylene	BRL	mg/kg dry	0.0049	0.00023	1	8260B	1/26/15 16:26	MSC	P5A0345
Toluene	BRL	mg/kg dry	0.0049	0.00028	1	8260B	1/26/15 16:26	MSC	P5A0345
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0049	0.00029	1	8260B	1/26/15 16:26	MSC	P5A0345
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0049	0.00026	1	8260B	1/26/15 16:26	MSC	P5A0345
Trichloroethylene	BRL	mg/kg dry	0.0049	0.00031	1	8260B	1/26/15 16:26	MSC	P5A0345
Trichlorofluoromethane	BRL	mg/kg dry	0.0049	0.00031	1	8260B	1/26/15 16:26	MSC	P5A0345
Vinyl acetate	BRL	mg/kg dry	0.024	0.00067	1	8260B	1/26/15 16:26	MSC	P5A0345
Vinyl chloride	BRL	mg/kg dry	0.0049	0.00023	1	8260B	1/26/15 16:26	MSC	P5A0345
Xylenes, total	See 8260ML	mg/kg dry	0.015	0.00091	1	8260B	1/26/15 16:26	MSC	P5A0345

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*71 %*	*70-130*	
Dibromofluoromethane	*107 %*	*84-123*	
Toluene-d8	*141 %*	*76-129*	*SR*

Volatile Organic Compounds by GC/MS (Medium Level)

1,2,4-Trimethylbenzene	**20**	**mg/kg dry**	**4.0**	**0.28**	**1000**	**8260B**	**1/27/15 22:02**	**MSC**	**P5A0370**
1,3,5-Trimethylbenzene	**11**	**mg/kg dry**	**4.0**	**0.42**	**1000**	**8260B**	**1/27/15 22:02**	**MSC**	**P5A0370**
4-Isopropyltoluene	**3.2**	**mg/kg dry**	**0.40**	**0.026**	**100**	**8260B**	**1/27/15 21:27**	**MSC**	**P5A0370**
m,p-Xylenes	**1.6**	**mg/kg dry**	**0.81**	**0.060**	**100**	**8260B**	**1/27/15 21:27**	**MSC**	**P5A0370**
n-Propylbenzene	**1.7**	**mg/kg dry**	**0.40**	**0.025**	**100**	**8260B**	**1/27/15 21:27**	**MSC**	**P5A0370**
sec-Butylbenzene	**2.0**	**mg/kg dry**	**0.40**	**0.033**	**100**	**8260B**	**1/27/15 21:27**	**MSC**	**P5A0370**
Xylenes, total	**1.6**	**mg/kg dry**	**1.2**	**0.086**	**100**	**8260B**	**1/27/15 21:27**	**MSC**	**P5A0370**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*116 %*	*70-130*
Dibromofluoromethane	*97 %*	*70-130*
Toluene-d8	*99 %*	*70-130*

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-5
Prism Sample ID: 5010401-05
Prism Work Order: 5010401
Time Collected: 01/20/15 13:40
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**83.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**1/27/15 16:15**	**MJO**	**P5A0380**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.40	0.062	1	8270D	2/2/15 22:36	KC	P5A0379
1,2-Dichlorobenzene	BRL	mg/kg dry	0.40	0.060	1	8270D	2/2/15 22:36	KC	P5A0379
1,3-Dichlorobenzene	BRL	mg/kg dry	0.40	0.056	1	8270D	2/2/15 22:36	KC	P5A0379
1,4-Dichlorobenzene	BRL	mg/kg dry	0.40	0.058	1	8270D	2/2/15 22:36	KC	P5A0379
1-Methylnaphthalene	**0.14 J**	**mg/kg dry**	**0.40**	**0.076**	**1**	**8270D**	**2/2/15 22:36**	**KC**	**P5A0379**
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.40	0.074	1	8270D	2/2/15 22:36	KC	P5A0379
2,4-Dichlorophenol	BRL	mg/kg dry	0.40	0.077	1	8270D	2/2/15 22:36	KC	P5A0379
2,4-Dimethylphenol	BRL	mg/kg dry	0.40	0.061	1	8270D	2/2/15 22:36	KC	P5A0379
2,4-Dinitrophenol	BRL	mg/kg dry	0.40	0.055	1	8270D	2/2/15 22:36	KC	P5A0379
2,4-Dinitrotoluene	BRL	mg/kg dry	0.40	0.048	1	8270D	2/2/15 22:36	KC	P5A0379
2,6-Dinitrotoluene	BRL	mg/kg dry	0.40	0.053	1	8270D	2/2/15 22:36	KC	P5A0379
2-Chloronaphthalene	BRL	mg/kg dry	0.40	0.057	1	8270D	2/2/15 22:36	KC	P5A0379
2-Chlorophenol	BRL	mg/kg dry	0.40	0.056	1	8270D	2/2/15 22:36	KC	P5A0379
2-Methylnaphthalene	**0.19 J**	**mg/kg dry**	**0.40**	**0.063**	**1**	**8270D**	**2/2/15 22:36**	**KC**	**P5A0379**
2-Methylphenol	BRL	mg/kg dry	0.40	0.051	1	8270D	2/2/15 22:36	KC	P5A0379
2-Nitrophenol	BRL	mg/kg dry	0.40	0.072	1	8270D	2/2/15 22:36	KC	P5A0379
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.40	0.078	1	8270D	2/2/15 22:36	KC	P5A0379
3/4-Methylphenol	BRL	mg/kg dry	0.40	0.049	1	8270D	2/2/15 22:36	KC	P5A0379
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.40	0.060	1	8270D	2/2/15 22:36	KC	P5A0379
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.40	0.068	1	8270D	2/2/15 22:36	KC	P5A0379
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.40	0.056	1	8270D	2/2/15 22:36	KC	P5A0379
4-Chloroaniline	BRL	mg/kg dry	0.40	0.048	1	8270D	2/2/15 22:36	KC	P5A0379
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.40	0.052	1	8270D	2/2/15 22:36	KC	P5A0379
4-Nitrophenol	BRL	mg/kg dry	0.40	0.061	1	8270D	2/2/15 22:36	KC	P5A0379
Acenaphthene	BRL	mg/kg dry	0.40	0.054	1	8270D	2/2/15 22:36	KC	P5A0379
Acenaphthylene	BRL	mg/kg dry	0.40	0.057	1	8270D	2/2/15 22:36	KC	P5A0379
Anthracene	BRL	mg/kg dry	0.40	0.064	1	8270D	2/2/15 22:36	KC	P5A0379
Azobenzene	BRL	mg/kg dry	0.40	0.052	1	8270D	2/2/15 22:36	KC	P5A0379
Benzo(a)anthracene	BRL	mg/kg dry	0.40	0.052	1	8270D	2/2/15 22:36	KC	P5A0379
Benzo(a)pyrene	BRL	mg/kg dry	0.40	0.043	1	8270D	2/2/15 22:36	KC	P5A0379
Benzo(b)fluoranthene	BRL	mg/kg dry	0.40	0.046	1	8270D	2/2/15 22:36	KC	P5A0379
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.40	0.043	1	8270D	2/2/15 22:36	KC	P5A0379
Benzo(k)fluoranthene	BRL	mg/kg dry	0.40	0.052	1	8270D	2/2/15 22:36	KC	P5A0379
Benzoic Acid	BRL	mg/kg dry	0.40	0.033	1	8270D	2/2/15 22:36	KC	P5A0379
Benzyl alcohol	BRL	mg/kg dry	0.40	0.052	1	8270D	2/2/15 22:36	KC	P5A0379
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.40	0.069	1	8270D	2/2/15 22:36	KC	P5A0379
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.40	0.056	1	8270D	2/2/15 22:36	KC	P5A0379
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.40	0.068	1	8270D	2/2/15 22:36	KC	P5A0379
Bis(2-Ethylhexyl)phthalate	**0.36 J**	**mg/kg dry**	**0.40**	**0.059**	**1**	**8270D**	**2/2/15 22:36**	**KC**	**P5A0379**

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-5
Prism Sample ID: 5010401-05
Prism Work Order: 5010401
Time Collected: 01/20/15 13:40
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Butyl benzyl phthalate	BRL	mg/kg dry	0.40	0.056	1	8270D	2/2/15 22:36	KC	P5A0379
Chrysene	BRL	mg/kg dry	0.40	0.050	1	8270D	2/2/15 22:36	KC	P5A0379
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.40	0.048	1	8270D	2/2/15 22:36	KC	P5A0379
Dibenzofuran	BRL	mg/kg dry	0.40	0.060	1	8270D	2/2/15 22:36	KC	P5A0379
Diethyl phthalate	BRL	mg/kg dry	0.40	0.055	1	8270D	2/2/15 22:36	KC	P5A0379
Dimethyl phthalate	BRL	mg/kg dry	0.40	0.052	1	8270D	2/2/15 22:36	KC	P5A0379
Di-n-butyl phthalate	BRL	mg/kg dry	0.40	0.056	1	8270D	2/2/15 22:36	KC	P5A0379
Di-n-octyl phthalate	BRL	mg/kg dry	0.40	0.049	1	8270D	2/2/15 22:36	KC	P5A0379
Fluoranthene	BRL	mg/kg dry	0.40	0.051	1	8270D	2/2/15 22:36	KC	P5A0379
Fluorene	BRL	mg/kg dry	0.40	0.057	1	8270D	2/2/15 22:36	KC	P5A0379
Hexachlorobenzene	BRL	mg/kg dry	0.40	0.063	1	8270D	2/2/15 22:36	KC	P5A0379
Hexachlorobutadiene	BRL	mg/kg dry	0.40	0.071	1	8270D	2/2/15 22:36	KC	P5A0379
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.40	0.071	1	8270D	2/2/15 22:36	KC	P5A0379
Hexachloroethane	BRL	mg/kg dry	0.40	0.066	1	8270D	2/2/15 22:36	KC	P5A0379
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.40	0.046	1	8270D	2/2/15 22:36	KC	P5A0379
Isophorone	BRL	mg/kg dry	0.40	0.054	1	8270D	2/2/15 22:36	KC	P5A0379
Naphthalene	BRL	mg/kg dry	0.40	0.064	1	8270D	2/2/15 22:36	KC	P5A0379
Nitrobenzene	BRL	mg/kg dry	0.40	0.056	1	8270D	2/2/15 22:36	KC	P5A0379
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.40	0.062	1	8270D	2/2/15 22:36	KC	P5A0379
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.40	0.060	1	8270D	2/2/15 22:36	KC	P5A0379
Pentachlorophenol	BRL	mg/kg dry	0.40	0.047	1	8270D	2/2/15 22:36	KC	P5A0379
Phenanthrene	BRL	mg/kg dry	0.40	0.052	1	8270D	2/2/15 22:36	KC	P5A0379
Phenol	BRL	mg/kg dry	0.40	0.059	1	8270D	2/2/15 22:36	KC	P5A0379
Pyrene	**0.24 J**	**mg/kg dry**	**0.40**	**0.053**	**1**	**8270D**	**2/2/15 22:36**	**KC**	**P5A0379**

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*119 %*	*39-132*
2-Fluorobiphenyl	*102 %*	*44-115*
2-Fluorophenol	*90 %*	*35-115*
Nitrobenzene-d5	*85 %*	*37-122*
Phenol-d5	*82 %*	*34-121*
Terphenyl-d14	*115 %*	*54-127*

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0039	0.00032	1	8260B	1/27/15 22:11	MSC	P5A0375
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0039	0.00019	1	8260B	1/27/15 22:11	MSC	P5A0375
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0039	0.00026	1	8260B	1/27/15 22:11	MSC	P5A0375
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0039	0.00035	1	8260B	1/27/15 22:11	MSC	P5A0375
1,1-Dichloroethane	BRL	mg/kg dry	0.0039	0.00011	1	8260B	1/27/15 22:11	MSC	P5A0375
1,1-Dichloroethylene	BRL	mg/kg dry	0.0039	0.00017	1	8260B	1/27/15 22:11	MSC	P5A0375
1,1-Dichloropropylene	BRL	mg/kg dry	0.0039	0.00021	1	8260B	1/27/15 22:11	MSC	P5A0375
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0039	0.00022	1	8260B	1/27/15 22:11	MSC	P5A0375
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0039	0.00050	1	8260B	1/27/15 22:11	MSC	P5A0375
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0039	0.00029	1	8260B	1/27/15 22:11	MSC	P5A0375
1,2,4-Trimethylbenzene	**0.033**	**mg/kg dry**	**0.0039**	**0.00030**	**1**	**8260B**	**1/27/15 22:11**	**MSC**	**P5A0375**

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-5
Prism Sample ID: 5010401-05
Prism Work Order: 5010401
Time Collected: 01/20/15 13:40
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2-Dibromoethane	BRL	mg/kg dry	0.0039	0.00016	1	8260B	1/27/15 22:11	MSC	P5A0375
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0039	0.00018	1	8260B	1/27/15 22:11	MSC	P5A0375
1,2-Dichloroethane	BRL	mg/kg dry	0.0039	0.00023	1	8260B	1/27/15 22:11	MSC	P5A0375
1,2-Dichloropropane	BRL	mg/kg dry	0.0039	0.00024	1	8260B	1/27/15 22:11	MSC	P5A0375
1,3,5-Trimethylbenzene	**0.012**	**mg/kg dry**	**0.0039**	**0.00030**	**1**	**8260B**	**1/27/15 22:11**	**MSC**	**P5A0375**
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0039	0.00026	1	8260B	1/27/15 22:11	MSC	P5A0375
1,3-Dichloropropane	BRL	mg/kg dry	0.0039	0.00020	1	8260B	1/27/15 22:11	MSC	P5A0375
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0039	0.00015	1	8260B	1/27/15 22:11	MSC	P5A0375
2,2-Dichloropropane	BRL	mg/kg dry	0.0039	0.00019	1	8260B	1/27/15 22:11	MSC	P5A0375
2-Chlorotoluene	BRL	mg/kg dry	0.0039	0.00020	1	8260B	1/27/15 22:11	MSC	P5A0375
4-Chlorotoluene	BRL	mg/kg dry	0.0039	0.00023	1	8260B	1/27/15 22:11	MSC	P5A0375
4-Isopropyltoluene	**0.0046**	**mg/kg dry**	**0.0039**	**0.00019**	**1**	**8260B**	**1/27/15 22:11**	**MSC**	**P5A0375**
Acetone	BRL	mg/kg dry	0.039	0.00095	1	8260B	1/27/15 22:11	MSC	P5A0375
Benzene	BRL	mg/kg dry	0.0023	0.00023	1	8260B	1/27/15 22:11	MSC	P5A0375
Bromobenzene	BRL	mg/kg dry	0.0039	0.00033	1	8260B	1/27/15 22:11	MSC	P5A0375
Bromochloromethane	BRL	mg/kg dry	0.0039	0.00021	1	8260B	1/27/15 22:11	MSC	P5A0375
Bromodichloromethane	BRL	mg/kg dry	0.0039	0.00022	1	8260B	1/27/15 22:11	MSC	P5A0375
Bromoform	BRL	mg/kg dry	0.0039	0.00044	1	8260B	1/27/15 22:11	MSC	P5A0375
Bromomethane	BRL CVL	mg/kg dry	0.0078	0.00048	1	8260B	1/27/15 22:11	MSC	P5A0375
Carbon Tetrachloride	BRL	mg/kg dry	0.0039	0.00019	1	8260B	1/27/15 22:11	MSC	P5A0375
Chlorobenzene	BRL	mg/kg dry	0.0039	0.00021	1	8260B	1/27/15 22:11	MSC	P5A0375
Chloroethane	BRL	mg/kg dry	0.0078	0.00033	1	8260B	1/27/15 22:11	MSC	P5A0375
Chloroform	BRL	mg/kg dry	0.0039	0.00028	1	8260B	1/27/15 22:11	MSC	P5A0375
Chloromethane	BRL	mg/kg dry	0.0039	0.00026	1	8260B	1/27/15 22:11	MSC	P5A0375
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0039	0.00017	1	8260B	1/27/15 22:11	MSC	P5A0375
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0039	0.00013	1	8260B	1/27/15 22:11	MSC	P5A0375
Dibromochloromethane	BRL	mg/kg dry	0.0039	0.00016	1	8260B	1/27/15 22:11	MSC	P5A0375
Dichlorodifluoromethane	BRL	mg/kg dry	0.0039	0.00018	1	8260B	1/27/15 22:11	MSC	P5A0375
Ethylbenzene	BRL	mg/kg dry	0.0039	0.00015	1	8260B	1/27/15 22:11	MSC	P5A0375
Isopropyl Ether	BRL	mg/kg dry	0.0039	0.00016	1	8260B	1/27/15 22:11	MSC	P5A0375
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0039	0.00023	1	8260B	1/27/15 22:11	MSC	P5A0375
m,p-Xylenes	BRL	mg/kg dry	0.0078	0.00036	1	8260B	1/27/15 22:11	MSC	P5A0375
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.039	0.00035	1	8260B	1/27/15 22:11	MSC	P5A0375
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.078	0.00035	1	8260B	1/27/15 22:11	MSC	P5A0375
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.039	0.00033	1	8260B	1/27/15 22:11	MSC	P5A0375
Methylene Chloride	BRL	mg/kg dry	0.0039	0.00022	1	8260B	1/27/15 22:11	MSC	P5A0375
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0078	0.00012	1	8260B	1/27/15 22:11	MSC	P5A0375
Naphthalene	**0.043**	**mg/kg dry**	**0.0078**	**0.00012**	**1**	**8260B**	**1/27/15 22:11**	**MSC**	**P5A0375**
n-Butylbenzene	**0.0037 J**	**mg/kg dry**	**0.0039**	**0.00020**	**1**	**8260B**	**1/27/15 22:11**	**MSC**	**P5A0375**
n-Propylbenzene	**0.0018 J**	**mg/kg dry**	**0.0039**	**0.00023**	**1**	**8260B**	**1/27/15 22:11**	**MSC**	**P5A0375**
o-Xylene	**0.0028 J**	**mg/kg dry**	**0.0039**	**0.00016**	**1**	**8260B**	**1/27/15 22:11**	**MSC**	**P5A0375**
sec-Butylbenzene	BRL	mg/kg dry	0.0039	0.00019	1	8260B	1/27/15 22:11	MSC	P5A0375
Styrene	BRL	mg/kg dry	0.0039	0.00023	1	8260B	1/27/15 22:11	MSC	P5A0375

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: SB-5
Prism Sample ID: 5010401-05
Prism Work Order: 5010401
Time Collected: 01/20/15 13:40
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
tert-Butylbenzene	BRL	mg/kg dry	0.0039	0.00013	1	8260B	1/27/15 22:11	MSC	P5A0375
Tetrachloroethylene	**0.0051**	**mg/kg dry**	**0.0039**	**0.00019**	**1**	**8260B**	**1/27/15 22:11**	**MSC**	**P5A0375**
Toluene	BRL	mg/kg dry	0.0039	0.00022	1	8260B	1/27/15 22:11	MSC	P5A0375
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0039	0.00023	1	8260B	1/27/15 22:11	MSC	P5A0375
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0039	0.00021	1	8260B	1/27/15 22:11	MSC	P5A0375
Trichloroethylene	BRL	mg/kg dry	0.0039	0.00025	1	8260B	1/27/15 22:11	MSC	P5A0375
Trichlorofluoromethane	BRL	mg/kg dry	0.0039	0.00025	1	8260B	1/27/15 22:11	MSC	P5A0375
Vinyl acetate	BRL	mg/kg dry	0.020	0.00053	1	8260B	1/27/15 22:11	MSC	P5A0375
Vinyl chloride	BRL	mg/kg dry	0.0039	0.00019	1	8260B	1/27/15 22:11	MSC	P5A0375
Xylenes, total	**0.0028 J**	**mg/kg dry**	**0.012**	**0.00073**	**1**	**8260B**	**1/27/15 22:11**	**MSC**	**P5A0375**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*109 %*	*70-130*
Dibromofluoromethane	*107 %*	*84-123*
Toluene-d8	*106 %*	*76-129*

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: Dup-1
Prism Sample ID: 5010401-06
Prism Work Order: 5010401
Time Collected: 01/20/15 14:30
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**90.4**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**1/29/15 15:00**	**MJO**	**P5A0428**
Volatile Organic Compounds by GC/MS									R35
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0043	0.00036	1	8260B	1/27/15 21:47	MSC	P5A0375
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0043	0.00021	1	8260B	1/27/15 21:47	MSC	P5A0375
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0043	0.00029	1	8260B	1/27/15 21:47	MSC	P5A0375
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0043	0.00039	1	8260B	1/27/15 21:47	MSC	P5A0375
1,1-Dichloroethane	BRL	mg/kg dry	0.0043	0.00012	1	8260B	1/27/15 21:47	MSC	P5A0375
1,1-Dichloroethylene	BRL	mg/kg dry	0.0043	0.00019	1	8260B	1/27/15 21:47	MSC	P5A0375
1,1-Dichloropropylene	BRL	mg/kg dry	0.0043	0.00024	1	8260B	1/27/15 21:47	MSC	P5A0375
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0043	0.00025	1	8260B	1/27/15 21:47	MSC	P5A0375
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0043	0.00055	1	8260B	1/27/15 21:47	MSC	P5A0375
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0043	0.00032	1	8260B	1/27/15 21:47	MSC	P5A0375
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0043	0.00033	1	8260B	1/27/15 21:47	MSC	P5A0375
1,2-Dibromoethane	BRL	mg/kg dry	0.0043	0.00017	1	8260B	1/27/15 21:47	MSC	P5A0375
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0043	0.00020	1	8260B	1/27/15 21:47	MSC	P5A0375
1,2-Dichloroethane	BRL	mg/kg dry	0.0043	0.00026	1	8260B	1/27/15 21:47	MSC	P5A0375
1,2-Dichloropropane	BRL	mg/kg dry	0.0043	0.00027	1	8260B	1/27/15 21:47	MSC	P5A0375
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0043	0.00033	1	8260B	1/27/15 21:47	MSC	P5A0375
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0043	0.00029	1	8260B	1/27/15 21:47	MSC	P5A0375
1,3-Dichloropropane	BRL	mg/kg dry	0.0043	0.00022	1	8260B	1/27/15 21:47	MSC	P5A0375
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0043	0.00017	1	8260B	1/27/15 21:47	MSC	P5A0375
2,2-Dichloropropane	BRL	mg/kg dry	0.0043	0.00021	1	8260B	1/27/15 21:47	MSC	P5A0375
2-Chlorotoluene	BRL	mg/kg dry	0.0043	0.00022	1	8260B	1/27/15 21:47	MSC	P5A0375
4-Chlorotoluene	BRL	mg/kg dry	0.0043	0.00026	1	8260B	1/27/15 21:47	MSC	P5A0375
4-Isopropyltoluene	BRL	mg/kg dry	0.0043	0.00021	1	8260B	1/27/15 21:47	MSC	P5A0375
Acetone	BRL	mg/kg dry	0.043	0.0011	1	8260B	1/27/15 21:47	MSC	P5A0375
Benzene	BRL	mg/kg dry	0.0026	0.00025	1	8260B	1/27/15 21:47	MSC	P5A0375
Bromobenzene	BRL	mg/kg dry	0.0043	0.00036	1	8260B	1/27/15 21:47	MSC	P5A0375
Bromochloromethane	BRL	mg/kg dry	0.0043	0.00024	1	8260B	1/27/15 21:47	MSC	P5A0375
Bromodichloromethane	BRL	mg/kg dry	0.0043	0.00024	1	8260B	1/27/15 21:47	MSC	P5A0375
Bromoform	BRL	mg/kg dry	0.0043	0.00049	1	8260B	1/27/15 21:47	MSC	P5A0375
Bromomethane	BRL CVL	mg/kg dry	0.0087	0.00054	1	8260B	1/27/15 21:47	MSC	P5A0375
Carbon Tetrachloride	BRL	mg/kg dry	0.0043	0.00022	1	8260B	1/27/15 21:47	MSC	P5A0375
Chlorobenzene	BRL	mg/kg dry	0.0043	0.00023	1	8260B	1/27/15 21:47	MSC	P5A0375
Chloroethane	BRL	mg/kg dry	0.0087	0.00036	1	8260B	1/27/15 21:47	MSC	P5A0375
Chloroform	BRL	mg/kg dry	0.0043	0.00031	1	8260B	1/27/15 21:47	MSC	P5A0375
Chloromethane	BRL	mg/kg dry	0.0043	0.00029	1	8260B	1/27/15 21:47	MSC	P5A0375
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0043	0.00019	1	8260B	1/27/15 21:47	MSC	P5A0375
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0043	0.00015	1	8260B	1/27/15 21:47	MSC	P5A0375
Dibromochloromethane	BRL	mg/kg dry	0.0043	0.00018	1	8260B	1/27/15 21:47	MSC	P5A0375
Dichlorodifluoromethane	BRL	mg/kg dry	0.0043	0.00020	1	8260B	1/27/15 21:47	MSC	P5A0375

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Solid

Client Sample ID: Dup-1
Prism Sample ID: 5010401-06
Prism Work Order: 5010401
Time Collected: 01/20/15 14:30
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	mg/kg dry	0.0043	0.00017	1	8260B	1/27/15 21:47	MSC	P5A0375
Isopropyl Ether	BRL	mg/kg dry	0.0043	0.00018	1	8260B	1/27/15 21:47	MSC	P5A0375
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0043	0.00026	1	8260B	1/27/15 21:47	MSC	P5A0375
m,p-Xylenes	BRL	mg/kg dry	0.0087	0.00040	1	8260B	1/27/15 21:47	MSC	P5A0375
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.043	0.00039	1	8260B	1/27/15 21:47	MSC	P5A0375
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.087	0.00039	1	8260B	1/27/15 21:47	MSC	P5A0375
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.043	0.00037	1	8260B	1/27/15 21:47	MSC	P5A0375
Methylene Chloride	BRL	mg/kg dry	0.0043	0.00024	1	8260B	1/27/15 21:47	MSC	P5A0375
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0087	0.00014	1	8260B	1/27/15 21:47	MSC	P5A0375
Naphthalene	BRL	mg/kg dry	0.0087	0.00014	1	8260B	1/27/15 21:47	MSC	P5A0375
n-Butylbenzene	BRL	mg/kg dry	0.0043	0.00022	1	8260B	1/27/15 21:47	MSC	P5A0375
n-Propylbenzene	BRL	mg/kg dry	0.0043	0.00026	1	8260B	1/27/15 21:47	MSC	P5A0375
o-Xylene	BRL	mg/kg dry	0.0043	0.00018	1	8260B	1/27/15 21:47	MSC	P5A0375
sec-Butylbenzene	BRL	mg/kg dry	0.0043	0.00021	1	8260B	1/27/15 21:47	MSC	P5A0375
Styrene	BRL	mg/kg dry	0.0043	0.00026	1	8260B	1/27/15 21:47	MSC	P5A0375
tert-Butylbenzene	BRL	mg/kg dry	0.0043	0.00015	1	8260B	1/27/15 21:47	MSC	P5A0375
Tetrachloroethylene	BRL	mg/kg dry	0.0043	0.00021	1	8260B	1/27/15 21:47	MSC	P5A0375
Toluene	BRL	mg/kg dry	0.0043	0.00025	1	8260B	1/27/15 21:47	MSC	P5A0375
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0043	0.00026	1	8260B	1/27/15 21:47	MSC	P5A0375
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0043	0.00023	1	8260B	1/27/15 21:47	MSC	P5A0375
Trichloroethylene	BRL	mg/kg dry	0.0043	0.00028	1	8260B	1/27/15 21:47	MSC	P5A0375
Trichlorofluoromethane	BRL	mg/kg dry	0.0043	0.00028	1	8260B	1/27/15 21:47	MSC	P5A0375
Vinyl acetate	BRL	mg/kg dry	0.022	0.00060	1	8260B	1/27/15 21:47	MSC	P5A0375
Vinyl chloride	BRL	mg/kg dry	0.0043	0.00021	1	8260B	1/27/15 21:47	MSC	P5A0375
Xylenes, total	BRL	mg/kg dry	0.013	0.00081	1	8260B	1/27/15 21:47	MSC	P5A0375

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*70-130*
Dibromofluoromethane	*105 %*	*84-123*
Toluene-d8	*102 %*	*76-129*

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Water

Client Sample ID: SB-2
Prism Sample ID: 5010401-07
Prism Work Order: 5010401
Time Collected: 01/21/15 11:00
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	2.5	1	8270D	1/26/15 13:36	KC	P5A0299
1,2-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	1/26/15 13:36	KC	P5A0299
1,3-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	1/26/15 13:36	KC	P5A0299
1,4-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	1/26/15 13:36	KC	P5A0299
1-Methylnaphthalene	BRL	ug/L	10	2.4	1	8270D	1/26/15 13:36	KC	P5A0299
2,4,5-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	1/26/15 13:36	KC	P5A0299
2,4,6-Trichlorophenol	BRL	ug/L	10	2.6	1	8270D	1/26/15 13:36	KC	P5A0299
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	1/26/15 13:36	KC	P5A0299
2,4-Dimethylphenol	BRL	ug/L	10	2.3	1	8270D	1/26/15 13:36	KC	P5A0299
2,4-Dinitrophenol	BRL	ug/L	10	3.7	1	8270D	1/26/15 13:36	KC	P5A0299
2,4-Dinitrotoluene	BRL	ug/L	10	1.9	1	8270D	1/26/15 13:36	KC	P5A0299
2,6-Dinitrotoluene	BRL	ug/L	10	2.0	1	8270D	1/26/15 13:36	KC	P5A0299
2-Chloronaphthalene	BRL	ug/L	10	3.4	1	8270D	1/26/15 13:36	KC	P5A0299
2-Chlorophenol	BRL	ug/L	10	2.4	1	8270D	1/26/15 13:36	KC	P5A0299
2-Methylnaphthalene	BRL	ug/L	10	2.2	1	8270D	1/26/15 13:36	KC	P5A0299
2-Methylphenol	BRL	ug/L	10	2.1	1	8270D	1/26/15 13:36	KC	P5A0299
2-Nitroaniline	BRL	ug/L	10	2.2	1	8270D	1/26/15 13:36	KC	P5A0299
2-Nitrophenol	BRL	ug/L	10	2.4	1	8270D	1/26/15 13:36	KC	P5A0299
3,3'-Dichlorobenzidine	BRL	ug/L	10	2.2	1	8270D	1/26/15 13:36	KC	P5A0299
3/4-Methylphenol	BRL	ug/L	10	1.9	1	8270D	1/26/15 13:36	KC	P5A0299
3-Nitroaniline	BRL	ug/L	10	1.2	1	8270D	1/26/15 13:36	KC	P5A0299
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.4	1	8270D	1/26/15 13:36	KC	P5A0299
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	1/26/15 13:36	KC	P5A0299
4-Chloro-3-methylphenol	BRL	ug/L	10	1.9	1	8270D	1/26/15 13:36	KC	P5A0299
4-Chloroaniline	BRL	ug/L	10	1.8	1	8270D	1/26/15 13:36	KC	P5A0299
4-Chlorophenyl phenyl ether	BRL	ug/L	10	2.0	1	8270D	1/26/15 13:36	KC	P5A0299
4-Nitroaniline	BRL	ug/L	10	2.0	1	8270D	1/26/15 13:36	KC	P5A0299
4-Nitrophenol	BRL	ug/L	10	0.66	1	8270D	1/26/15 13:36	KC	P5A0299
Acenaphthene	BRL	ug/L	10	2.5	1	8270D	1/26/15 13:36	KC	P5A0299
Acenaphthylene	BRL	ug/L	10	2.5	1	8270D	1/26/15 13:36	KC	P5A0299
Aniline	BRL	ug/L	10	2.1	1	8270D	1/26/15 13:36	KC	P5A0299
Anthracene	BRL	ug/L	10	3.0	1	8270D	1/26/15 13:36	KC	P5A0299
Azobenzene	BRL	ug/L	10	1.8	1	8270D	1/26/15 13:36	KC	P5A0299
Benzo(a)anthracene	BRL	ug/L	10	2.0	1	8270D	1/26/15 13:36	KC	P5A0299
Benzo(a)pyrene	BRL	ug/L	10	2.4	1	8270D	1/26/15 13:36	KC	P5A0299
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	1/26/15 13:36	KC	P5A0299
Benzo(g,h,i)perylene	BRL	ug/L	10	1.8	1	8270D	1/26/15 13:36	KC	P5A0299
Benzo(k)fluoranthene	BRL	ug/L	10	2.4	1	8270D	1/26/15 13:36	KC	P5A0299
Benzoic Acid	BRL	ug/L	100	2.7	1	8270D	1/26/15 13:36	KC	P5A0299
Benzyl alcohol	BRL	ug/L	10	1.8	1	8270D	1/26/15 13:36	KC	P5A0299
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	1/26/15 13:36	KC	P5A0299
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	8270D	1/26/15 13:36	KC	P5A0299

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Water

Client Sample ID: SB-2
Prism Sample ID: 5010401-07
Prism Work Order: 5010401
Time Collected: 01/21/15 11:00
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.2	1	8270D	1/26/15 13:36	KC	P5A0299
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	2.0	1	8270D	1/26/15 13:36	KC	P5A0299
Butyl benzyl phthalate	BRL	ug/L	10	2.0	1	8270D	1/26/15 13:36	KC	P5A0299
Chrysene	BRL	ug/L	10	2.2	1	8270D	1/26/15 13:36	KC	P5A0299
Dibenzo(a,h)anthracene	BRL	ug/L	10	2.0	1	8270D	1/26/15 13:36	KC	P5A0299
Dibenzofuran	BRL	ug/L	10	2.3	1	8270D	1/26/15 13:36	KC	P5A0299
Diethyl phthalate	BRL	ug/L	10	1.9	1	8270D	1/26/15 13:36	KC	P5A0299
Dimethyl phthalate	BRL	ug/L	10	2.0	1	8270D	1/26/15 13:36	KC	P5A0299
Di-n-butyl phthalate	BRL	ug/L	10	2.0	1	8270D	1/26/15 13:36	KC	P5A0299
Di-n-octyl phthalate	BRL	ug/L	10	1.7	1	8270D	1/26/15 13:36	KC	P5A0299
Fluoranthene	BRL	ug/L	10	2.2	1	8270D	1/26/15 13:36	KC	P5A0299
Fluorene	BRL	ug/L	10	2.5	1	8270D	1/26/15 13:36	KC	P5A0299
Hexachlorobenzene	BRL	ug/L	10	1.9	1	8270D	1/26/15 13:36	KC	P5A0299
Hexachlorobutadiene	BRL	ug/L	10	2.6	1	8270D	1/26/15 13:36	KC	P5A0299
Hexachlorocyclopentadiene	BRL	ug/L	10	2.2	1	8270D	1/26/15 13:36	KC	P5A0299
Hexachloroethane	BRL	ug/L	10	2.5	1	8270D	1/26/15 13:36	KC	P5A0299
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.1	1	8270D	1/26/15 13:36	KC	P5A0299
Isophorone	BRL	ug/L	10	2.5	1	8270D	1/26/15 13:36	KC	P5A0299
Naphthalene	BRL	ug/L	10	2.4	1	8270D	1/26/15 13:36	KC	P5A0299
Nitrobenzene	BRL	ug/L	10	2.4	1	8270D	1/26/15 13:36	KC	P5A0299
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.5	1	8270D	1/26/15 13:36	KC	P5A0299
N-Nitrosodiphenylamine	BRL	ug/L	10	1.8	1	8270D	1/26/15 13:36	KC	P5A0299
Pentachlorophenol	BRL	ug/L	10	2.5	1	8270D	1/26/15 13:36	KC	P5A0299
Phenanthrene	BRL	ug/L	10	1.8	1	8270D	1/26/15 13:36	KC	P5A0299
Phenol	BRL	ug/L	10	1.2	1	8270D	1/26/15 13:36	KC	P5A0299
Pyrene	BRL	ug/L	10	2.2	1	8270D	1/26/15 13:36	KC	P5A0299

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*85 %*	*49-109*
2-Fluorobiphenyl	*68 %*	*55-96*
2-Fluorophenol	*38 %*	*27-74*
Nitrobenzene-d5	*59 %*	*53-99*
Phenol-d5	*24 %*	*11-52*
Terphenyl-d14	*80 %*	*42-133*

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	1/26/15 20:19	VHL	P5A0355
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	1/26/15 20:19	VHL	P5A0355
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	1/26/15 20:19	VHL	P5A0355
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	1/26/15 20:19	VHL	P5A0355
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	1/26/15 20:19	VHL	P5A0355
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	1/26/15 20:19	VHL	P5A0355
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	1/26/15 20:19	VHL	P5A0355
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	1/26/15 20:19	VHL	P5A0355
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	1/26/15 20:19	VHL	P5A0355

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Water

Client Sample ID: SB-2
Prism Sample ID: 5010401-07
Prism Work Order: 5010401
Time Collected: 01/21/15 11:00
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	1/26/15 20:19	VHL	P5A0355
1,2,4-Trimethylbenzene	**18**	**ug/L**	**0.50**	**0.054**	**1**	**8260B**	**1/26/15 20:19**	**VHL**	**P5A0355**
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	1/26/15 20:19	VHL	P5A0355
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	1/26/15 20:19	VHL	P5A0355
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	1/26/15 20:19	VHL	P5A0355
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	1/26/15 20:19	VHL	P5A0355
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	1/26/15 20:19	VHL	P5A0355
1,3,5-Trimethylbenzene	**12**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**1/26/15 20:19**	**VHL**	**P5A0355**
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	1/26/15 20:19	VHL	P5A0355
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	1/26/15 20:19	VHL	P5A0355
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	1/26/15 20:19	VHL	P5A0355
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	1/26/15 20:19	VHL	P5A0355
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.37	1	8260B	1/26/15 20:19	VHL	P5A0355
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	1/26/15 20:19	VHL	P5A0355
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	1/26/15 20:19	VHL	P5A0355
4-Isopropyltoluene	**0.62**	**ug/L**	**0.50**	**0.089**	**1**	**8260B**	**1/26/15 20:19**	**VHL**	**P5A0355**
Acetone	BRL	ug/L	5.0	0.31	1	8260B	1/26/15 20:19	VHL	P5A0355
Acrolein	BRL	ug/L	20	0.20	1	8260B	1/26/15 20:19	VHL	P5A0355
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	1/26/15 20:19	VHL	P5A0355
Benzene	BRL	ug/L	0.50	0.048	1	8260B	1/26/15 20:19	VHL	P5A0355
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	1/26/15 20:19	VHL	P5A0355
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	1/26/15 20:19	VHL	P5A0355
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	1/26/15 20:19	VHL	P5A0355
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	1/26/15 20:19	VHL	P5A0355
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	1/26/15 20:19	VHL	P5A0355
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	1/26/15 20:19	VHL	P5A0355
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	1/26/15 20:19	VHL	P5A0355
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	1/26/15 20:19	VHL	P5A0355
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	1/26/15 20:19	VHL	P5A0355
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	1/26/15 20:19	VHL	P5A0355
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	1/26/15 20:19	VHL	P5A0355
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	1/26/15 20:19	VHL	P5A0355
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	1/26/15 20:19	VHL	P5A0355
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	1/26/15 20:19	VHL	P5A0355
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	1/26/15 20:19	VHL	P5A0355
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	1/26/15 20:19	VHL	P5A0355
Ethylbenzene	**1.2**	**ug/L**	**0.50**	**0.061**	**1**	**8260B**	**1/26/15 20:19**	**VHL**	**P5A0355**
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	1/26/15 20:19	VHL	P5A0355
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	1/26/15 20:19	VHL	P5A0355
Isopropylbenzene (Cumene)	**2.0**	**ug/L**	**0.50**	**0.054**	**1**	**8260B**	**1/26/15 20:19**	**VHL**	**P5A0355**
m,p-Xylenes	**2.5**	**ug/L**	**1.0**	**0.12**	**1**	**8260B**	**1/26/15 20:19**	**VHL**	**P5A0355**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	1/26/15 20:19	VHL	P5A0355
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	1/26/15 20:19	VHL	P5A0355

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Water

Client Sample ID: SB-2
Prism Sample ID: 5010401-07
Prism Work Order: 5010401
Time Collected: 01/21/15 11:00
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	1/26/15 20:19	VHL	P5A0355
Methylene Chloride	**11**	**ug/L**	**1.0**	**0.083**	**1**	**8260B**	**1/26/15 20:19**	**VHL**	**P5A0355**
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	1/26/15 20:19	VHL	P5A0355
Naphthalene	**0.66 J**	**ug/L**	**1.0**	**0.19**	**1**	**8260B**	**1/26/15 20:19**	**VHL**	**P5A0355**
n-Butylbenzene	**1.1**	**ug/L**	**1.0**	**0.076**	**1**	**8260B**	**1/26/15 20:19**	**VHL**	**P5A0355**
n-Propylbenzene	**2.8**	**ug/L**	**0.50**	**0.087**	**1**	**8260B**	**1/26/15 20:19**	**VHL**	**P5A0355**
o-Xylene	**3.9**	**ug/L**	**0.50**	**0.044**	**1**	**8260B**	**1/26/15 20:19**	**VHL**	**P5A0355**
sec-Butylbenzene	**2.0**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**1/26/15 20:19**	**VHL**	**P5A0355**
Styrene	BRL	ug/L	0.50	0.047	1	8260B	1/26/15 20:19	VHL	P5A0355
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	1/26/15 20:19	VHL	P5A0355
Tetrachloroethylene	**2.0**	**ug/L**	**0.50**	**0.098**	**1**	**8260B**	**1/26/15 20:19**	**VHL**	**P5A0355**
Toluene	BRL	ug/L	0.50	0.044	1	8260B	1/26/15 20:19	VHL	P5A0355
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	1/26/15 20:19	VHL	P5A0355
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	1/26/15 20:19	VHL	P5A0355
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	1/26/15 20:19	VHL	P5A0355
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	1/26/15 20:19	VHL	P5A0355
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	1/26/15 20:19	VHL	P5A0355
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	1/26/15 20:19	VHL	P5A0355

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*109 %*	*80-124*
Dibromofluoromethane	*97 %*	*75-129*
Toluene-d8	*95 %*	*77-123*

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Water

Client Sample ID: Dup-1
Prism Sample ID: 5010401-08
Prism Work Order: 5010401
Time Collected: 01/21/15 11:00
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	1/26/15 20:44	VHL	P5A0355
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	1/26/15 20:44	VHL	P5A0355
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	1/26/15 20:44	VHL	P5A0355
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	1/26/15 20:44	VHL	P5A0355
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	1/26/15 20:44	VHL	P5A0355
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	1/26/15 20:44	VHL	P5A0355
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	1/26/15 20:44	VHL	P5A0355
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	1/26/15 20:44	VHL	P5A0355
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	1/26/15 20:44	VHL	P5A0355
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	1/26/15 20:44	VHL	P5A0355
1,2,4-Trimethylbenzene	**19**	**ug/L**	**0.50**	**0.054**	**1**	**8260B**	**1/26/15 20:44**	**VHL**	**P5A0355**
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	1/26/15 20:44	VHL	P5A0355
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	1/26/15 20:44	VHL	P5A0355
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	1/26/15 20:44	VHL	P5A0355
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	1/26/15 20:44	VHL	P5A0355
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	1/26/15 20:44	VHL	P5A0355
1,3,5-Trimethylbenzene	**12**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**1/26/15 20:44**	**VHL**	**P5A0355**
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	1/26/15 20:44	VHL	P5A0355
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	1/26/15 20:44	VHL	P5A0355
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	1/26/15 20:44	VHL	P5A0355
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	1/26/15 20:44	VHL	P5A0355
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.37	1	8260B	1/26/15 20:44	VHL	P5A0355
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	1/26/15 20:44	VHL	P5A0355
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	1/26/15 20:44	VHL	P5A0355
4-Isopropyltoluene	**0.67**	**ug/L**	**0.50**	**0.089**	**1**	**8260B**	**1/26/15 20:44**	**VHL**	**P5A0355**
Acetone	BRL	ug/L	5.0	0.31	1	8260B	1/26/15 20:44	VHL	P5A0355
Acrolein	BRL	ug/L	20	0.20	1	8260B	1/26/15 20:44	VHL	P5A0355
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	1/26/15 20:44	VHL	P5A0355
Benzene	BRL	ug/L	0.50	0.048	1	8260B	1/26/15 20:44	VHL	P5A0355
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	1/26/15 20:44	VHL	P5A0355
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	1/26/15 20:44	VHL	P5A0355
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	1/26/15 20:44	VHL	P5A0355
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	1/26/15 20:44	VHL	P5A0355
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	1/26/15 20:44	VHL	P5A0355
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	1/26/15 20:44	VHL	P5A0355
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	1/26/15 20:44	VHL	P5A0355
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	1/26/15 20:44	VHL	P5A0355
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	1/26/15 20:44	VHL	P5A0355
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	1/26/15 20:44	VHL	P5A0355
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	1/26/15 20:44	VHL	P5A0355
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	1/26/15 20:44	VHL	P5A0355
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	1/26/15 20:44	VHL	P5A0355

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Water

Client Sample ID: Dup-1
Prism Sample ID: 5010401-08
Prism Work Order: 5010401
Time Collected: 01/21/15 11:00
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	1/26/15 20:44	VHL	P5A0355
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	1/26/15 20:44	VHL	P5A0355
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	1/26/15 20:44	VHL	P5A0355
Ethylbenzene	**1.3**	**ug/L**	**0.50**	**0.061**	**1**	**8260B**	**1/26/15 20:44**	**VHL**	**P5A0355**
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	1/26/15 20:44	VHL	P5A0355
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	1/26/15 20:44	VHL	P5A0355
Isopropylbenzene (Cumene)	**2.0**	**ug/L**	**0.50**	**0.054**	**1**	**8260B**	**1/26/15 20:44**	**VHL**	**P5A0355**
m,p-Xylenes	**2.6**	**ug/L**	**1.0**	**0.12**	**1**	**8260B**	**1/26/15 20:44**	**VHL**	**P5A0355**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	1/26/15 20:44	VHL	P5A0355
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	1/26/15 20:44	VHL	P5A0355
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	1/26/15 20:44	VHL	P5A0355
Methylene Chloride	**3.3**	**ug/L**	**1.0**	**0.083**	**1**	**8260B**	**1/26/15 20:44**	**VHL**	**P5A0355**
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	1/26/15 20:44	VHL	P5A0355
Naphthalene	**0.69 J**	**ug/L**	**1.0**	**0.19**	**1**	**8260B**	**1/26/15 20:44**	**VHL**	**P5A0355**
n-Butylbenzene	**1.5**	**ug/L**	**1.0**	**0.076**	**1**	**8260B**	**1/26/15 20:44**	**VHL**	**P5A0355**
n-Propylbenzene	**2.9**	**ug/L**	**0.50**	**0.087**	**1**	**8260B**	**1/26/15 20:44**	**VHL**	**P5A0355**
o-Xylene	**4.1**	**ug/L**	**0.50**	**0.044**	**1**	**8260B**	**1/26/15 20:44**	**VHL**	**P5A0355**
sec-Butylbenzene	**2.0**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**1/26/15 20:44**	**VHL**	**P5A0355**
Styrene	BRL	ug/L	0.50	0.047	1	8260B	1/26/15 20:44	VHL	P5A0355
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	1/26/15 20:44	VHL	P5A0355
Tetrachloroethylene	**2.3**	**ug/L**	**0.50**	**0.098**	**1**	**8260B**	**1/26/15 20:44**	**VHL**	**P5A0355**
Toluene	BRL	ug/L	0.50	0.044	1	8260B	1/26/15 20:44	VHL	P5A0355
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	1/26/15 20:44	VHL	P5A0355
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	1/26/15 20:44	VHL	P5A0355
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	1/26/15 20:44	VHL	P5A0355
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	1/26/15 20:44	VHL	P5A0355
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	1/26/15 20:44	VHL	P5A0355
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	1/26/15 20:44	VHL	P5A0355

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*105 %*	*80-124*
Dibromofluoromethane	*97 %*	*75-129*
Toluene-d8	*99 %*	*77-123*

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5010401-09
Prism Work Order: 5010401
Time Collected: 01/22/15 00:00
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	1/26/15 19:01	VHL	P5A0355
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	1/26/15 19:01	VHL	P5A0355
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	1/26/15 19:01	VHL	P5A0355
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	1/26/15 19:01	VHL	P5A0355
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	1/26/15 19:01	VHL	P5A0355
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	1/26/15 19:01	VHL	P5A0355
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	1/26/15 19:01	VHL	P5A0355
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	1/26/15 19:01	VHL	P5A0355
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	1/26/15 19:01	VHL	P5A0355
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	1/26/15 19:01	VHL	P5A0355
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	1/26/15 19:01	VHL	P5A0355
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	1/26/15 19:01	VHL	P5A0355
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	1/26/15 19:01	VHL	P5A0355
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	1/26/15 19:01	VHL	P5A0355
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	1/26/15 19:01	VHL	P5A0355
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	1/26/15 19:01	VHL	P5A0355
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	1/26/15 19:01	VHL	P5A0355
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	1/26/15 19:01	VHL	P5A0355
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	1/26/15 19:01	VHL	P5A0355
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	1/26/15 19:01	VHL	P5A0355
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	1/26/15 19:01	VHL	P5A0355
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.37	1	8260B	1/26/15 19:01	VHL	P5A0355
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	1/26/15 19:01	VHL	P5A0355
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	1/26/15 19:01	VHL	P5A0355
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	1/26/15 19:01	VHL	P5A0355
Acetone	BRL	ug/L	5.0	0.31	1	8260B	1/26/15 19:01	VHL	P5A0355
Acrolein	BRL	ug/L	20	0.20	1	8260B	1/26/15 19:01	VHL	P5A0355
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	1/26/15 19:01	VHL	P5A0355
Benzene	BRL	ug/L	0.50	0.048	1	8260B	1/26/15 19:01	VHL	P5A0355
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	1/26/15 19:01	VHL	P5A0355
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	1/26/15 19:01	VHL	P5A0355
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	1/26/15 19:01	VHL	P5A0355
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	1/26/15 19:01	VHL	P5A0355
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	1/26/15 19:01	VHL	P5A0355
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	1/26/15 19:01	VHL	P5A0355
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	1/26/15 19:01	VHL	P5A0355
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	1/26/15 19:01	VHL	P5A0355
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	1/26/15 19:01	VHL	P5A0355
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	1/26/15 19:01	VHL	P5A0355
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	1/26/15 19:01	VHL	P5A0355
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	1/26/15 19:01	VHL	P5A0355
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	1/26/15 19:01	VHL	P5A0355

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5010401-09
Prism Work Order: 5010401
Time Collected: 01/22/15 00:00
Time Submitted: 01/23/15 10:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	1/26/15 19:01	VHL	P5A0355
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	1/26/15 19:01	VHL	P5A0355
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	1/26/15 19:01	VHL	P5A0355
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	1/26/15 19:01	VHL	P5A0355
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	1/26/15 19:01	VHL	P5A0355
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	1/26/15 19:01	VHL	P5A0355
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	1/26/15 19:01	VHL	P5A0355
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	1/26/15 19:01	VHL	P5A0355
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	1/26/15 19:01	VHL	P5A0355
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	1/26/15 19:01	VHL	P5A0355
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	1/26/15 19:01	VHL	P5A0355
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	1/26/15 19:01	VHL	P5A0355
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	1/26/15 19:01	VHL	P5A0355
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	1/26/15 19:01	VHL	P5A0355
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	1/26/15 19:01	VHL	P5A0355
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	1/26/15 19:01	VHL	P5A0355
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	1/26/15 19:01	VHL	P5A0355
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	1/26/15 19:01	VHL	P5A0355
Styrene	BRL	ug/L	0.50	0.047	1	8260B	1/26/15 19:01	VHL	P5A0355
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	1/26/15 19:01	VHL	P5A0355
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	1/26/15 19:01	VHL	P5A0355
Toluene	BRL	ug/L	0.50	0.044	1	8260B	1/26/15 19:01	VHL	P5A0355
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	1/26/15 19:01	VHL	P5A0355
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	1/26/15 19:01	VHL	P5A0355
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	1/26/15 19:01	VHL	P5A0355
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	1/26/15 19:01	VHL	P5A0355
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	1/26/15 19:01	VHL	P5A0355
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	1/26/15 19:01	VHL	P5A0355

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*108 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*99 %*	*77-123*

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Prism Work Order: 5010401
Time Submitted: 1/23/2015 10:50:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0345 - 5035										
Blank (P5A0345-BLK1)				Prepared & Analyzed: 01/26/15						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Prism Work Order: 5010401
Time Submitted: 1/23/2015 10:50:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0345 - 5035										
Blank (P5A0345-BLK1)				Prepared & Analyzed: 01/26/15						
Methylene Chloride	BRL	0.0050	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0514*		*mg/kg wet*	*0.05000*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0529*		*mg/kg wet*	*0.05000*		*106*	*84-123*			
Surrogate: Toluene-d8	*0.0524*		*mg/kg wet*	*0.05000*		*105*	*76-129*			
LCS (P5A0345-BS1)				Prepared & Analyzed: 01/26/15						
1,1,1,2-Tetrachloroethane	0.0563	0.0050	mg/kg wet	0.05000		113	72-115			
1,1,1-Trichloroethane	0.0513	0.0050	mg/kg wet	0.05000		103	67-131			
1,1,2,2-Tetrachloroethane	0.0592	0.0050	mg/kg wet	0.05000		118	56-126			
1,1,2-Trichloroethane	0.0577	0.0050	mg/kg wet	0.05000		115	70-133			
1,1-Dichloroethane	0.0553	0.0050	mg/kg wet	0.05000		111	74-127			
1,1-Dichloroethylene	0.0520	0.0050	mg/kg wet	0.05000		104	67-149			
1,1-Dichloropropylene	0.0553	0.0050	mg/kg wet	0.05000		111	71-130			
1,2,3-Trichlorobenzene	0.0558	0.0050	mg/kg wet	0.05000		112	68-130			
1,2,3-Trichloropropane	0.0544	0.0050	mg/kg wet	0.05000		109	60-137			
1,2,4-Trichlorobenzene	0.0550	0.0050	mg/kg wet	0.05000		110	66-125			
1,2,4-Trimethylbenzene	0.0562	0.0050	mg/kg wet	0.05000		112	69-129			
1,2-Dibromoethane	0.0577	0.0050	mg/kg wet	0.05000		115	70-132			
1,2-Dichlorobenzene	0.0548	0.0050	mg/kg wet	0.05000		110	72-123			
1,2-Dichloroethane	0.0498	0.0050	mg/kg wet	0.05000		100	68-128			
1,2-Dichloropropane	0.0561	0.0050	mg/kg wet	0.05000		112	73-130			
1,3,5-Trimethylbenzene	0.0552	0.0050	mg/kg wet	0.05000		110	69-128			
1,3-Dichlorobenzene	0.0541	0.0050	mg/kg wet	0.05000		108	71-120			
1,3-Dichloropropane	0.0554	0.0050	mg/kg wet	0.05000		111	75-124			
1,4-Dichlorobenzene	0.0546	0.0050	mg/kg wet	0.05000		109	71-123			
2,2-Dichloropropane	0.0528	0.0050	mg/kg wet	0.05000		106	50-142			
2-Chlorotoluene	0.0540	0.0050	mg/kg wet	0.05000		108	67-124			
4-Chlorotoluene	0.0541	0.0050	mg/kg wet	0.05000		108	71-126			
4-Isopropyltoluene	0.0561	0.0050	mg/kg wet	0.05000		112	68-129			
Acetone	0.115	0.050	mg/kg wet	0.1000		115	29-198			

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Prism Work Order: 5010401
Time Submitted: 1/23/2015 10:50:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0345 - 5035										
LCS (P5A0345-BS1)				Prepared & Analyzed: 01/26/15						
Benzene	0.0589	0.0030	mg/kg wet	0.05000		118	74-127			
Bromobenzene	0.0544	0.0050	mg/kg wet	0.05000		109	73-125			
Bromochloromethane	0.0566	0.0050	mg/kg wet	0.05000		113	72-134			
Bromodichloromethane	0.0548	0.0050	mg/kg wet	0.05000		110	75-122			
Bromoform	0.0592	0.0050	mg/kg wet	0.05000		118	66-135			
Bromomethane	0.0342	0.010	mg/kg wet	0.05000		68	20-180			
Carbon Tetrachloride	0.0526	0.0050	mg/kg wet	0.05000		105	64-143			
Chlorobenzene	0.0570	0.0050	mg/kg wet	0.05000		114	74-118			
Chloroethane	0.0574	0.010	mg/kg wet	0.05000		115	33-149			
Chloroform	0.0539	0.0050	mg/kg wet	0.05000		108	73-127			
Chloromethane	0.0491	0.0050	mg/kg wet	0.05000		98	45-143			
cis-1,2-Dichloroethylene	0.0553	0.0050	mg/kg wet	0.05000		111	76-134			
cis-1,3-Dichloropropylene	0.0552	0.0050	mg/kg wet	0.05000		110	71-125			
Dibromochloromethane	0.0593	0.0050	mg/kg wet	0.05000		119	73-122			
Dichlorodifluoromethane	0.0700	0.0050	mg/kg wet	0.05000		140	26-146			
Ethylbenzene	0.0556	0.0050	mg/kg wet	0.05000		111	74-128			
Isopropyl Ether	0.0523	0.0050	mg/kg wet	0.05000		105	59-159			
Isopropylbenzene (Cumene)	0.0553	0.0050	mg/kg wet	0.05000		111	68-126			
m,p-Xylenes	0.110	0.010	mg/kg wet	0.1000		110	75-124			
Methyl Butyl Ketone (2-Hexanone)	0.0642	0.050	mg/kg wet	0.05000		128	61-157			
Methyl Ethyl Ketone (2-Butanone)	0.0600	0.10	mg/kg wet	0.05000		120	63-149			J
Methyl Isobutyl Ketone	0.0598	0.050	mg/kg wet	0.05000		120	57-162			
Methylene Chloride	0.0520	0.0050	mg/kg wet	0.05000		104	74-129			
Methyl-tert-Butyl Ether	0.0568	0.010	mg/kg wet	0.05000		114	70-130			
Naphthalene	0.0598	0.010	mg/kg wet	0.05000		120	57-157			
n-Butylbenzene	0.0577	0.0050	mg/kg wet	0.05000		115	65-135			
n-Propylbenzene	0.0539	0.0050	mg/kg wet	0.05000		108	67-130			
o-Xylene	0.0530	0.0050	mg/kg wet	0.05000		106	74-126			
sec-Butylbenzene	0.0555	0.0050	mg/kg wet	0.05000		111	66-131			
Styrene	0.0612	0.0050	mg/kg wet	0.05000		122	77-121			LH
tert-Butylbenzene	0.0531	0.0050	mg/kg wet	0.05000		106	67-132			
Tetrachloroethylene	0.0579	0.0050	mg/kg wet	0.05000		116	68-130			
Toluene	0.0575	0.0050	mg/kg wet	0.05000		115	71-129			
trans-1,2-Dichloroethylene	0.0553	0.0050	mg/kg wet	0.05000		111	73-132			
trans-1,3-Dichloropropylene	0.0559	0.0050	mg/kg wet	0.05000		112	68-123			
Trichloroethylene	0.0579	0.0050	mg/kg wet	0.05000		116	75-133			
Trichlorofluoromethane	0.0607	0.0050	mg/kg wet	0.05000		121	44-146			
Vinyl acetate	0.0659	0.025	mg/kg wet	0.05000		132	85-161			
Vinyl chloride	0.0617	0.0050	mg/kg wet	0.05000		123	48-147			
Xylenes, total	0.163	0.015	mg/kg wet	0.1500		109	74-126			
Surrogate: 4-Bromofluorobenzene	*0.0531*		*mg/kg wet*	*0.05000*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0552*		*mg/kg wet*	*0.05000*		*110*	*84-123*			
Surrogate: Toluene-d8	*0.0560*		*mg/kg wet*	*0.05000*		*112*	*76-129*			

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Project: R2478

Prism Work Order: 5010401
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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0345 - 5035										
LCS Dup (P5A0345-BSD1)				Prepared & Analyzed: 01/26/15						
1,1,1,2-Tetrachloroethane	0.0653	0.0050	mg/kg wet	0.05000		131	72-115	15	20	L2
1,1,1-Trichloroethane	0.0613	0.0050	mg/kg wet	0.05000		123	67-131	18	20	
1,1,2,2-Tetrachloroethane	0.0727	0.0050	mg/kg wet	0.05000		145	56-126	21	20	D, L2
1,1,2-Trichloroethane	0.0683	0.0050	mg/kg wet	0.05000		137	70-133	17	20	L2
1,1-Dichloroethane	0.0654	0.0050	mg/kg wet	0.05000		131	74-127	17	20	L2
1,1-Dichloroethylene	0.0612	0.0050	mg/kg wet	0.05000		122	67-149	16	20	
1,1-Dichloropropylene	0.0653	0.0050	mg/kg wet	0.05000		131	71-130	17	20	L2
1,2,3-Trichlorobenzene	0.0689	0.0050	mg/kg wet	0.05000		138	68-130	21	20	D, L2
1,2,3-Trichloropropane	0.0650	0.0050	mg/kg wet	0.05000		130	60-137	18	20	
1,2,4-Trichlorobenzene	0.0658	0.0050	mg/kg wet	0.05000		132	66-125	18	20	L2
1,2,4-Trimethylbenzene	0.0669	0.0050	mg/kg wet	0.05000		134	69-129	17	20	L2
1,2-Dibromoethane	0.0677	0.0050	mg/kg wet	0.05000		135	70-132	16	20	L2
1,2-Dichlorobenzene	0.0670	0.0050	mg/kg wet	0.05000		134	72-123	20	20	L2
1,2-Dichloroethane	0.0602	0.0050	mg/kg wet	0.05000		120	68-128	19	20	
1,2-Dichloropropane	0.0665	0.0050	mg/kg wet	0.05000		133	73-130	17	20	L2
1,3,5-Trimethylbenzene	0.0657	0.0050	mg/kg wet	0.05000		131	69-128	17	20	L2
1,3-Dichlorobenzene	0.0651	0.0050	mg/kg wet	0.05000		130	71-120	18	20	L2
1,3-Dichloropropane	0.0655	0.0050	mg/kg wet	0.05000		131	75-124	17	20	L2
1,4-Dichlorobenzene	0.0657	0.0050	mg/kg wet	0.05000		131	71-123	18	20	L2
2,2-Dichloropropane	0.0633	0.0050	mg/kg wet	0.05000		127	50-142	18	20	
2-Chlorotoluene	0.0645	0.0050	mg/kg wet	0.05000		129	67-124	18	20	L2
4-Chlorotoluene	0.0654	0.0050	mg/kg wet	0.05000		131	71-126	19	20	L2
4-Isopropyltoluene	0.0670	0.0050	mg/kg wet	0.05000		134	68-129	18	20	L2
Acetone	0.144	0.050	mg/kg wet	0.1000		144	29-198	22	20	D
Benzene	0.0707	0.0030	mg/kg wet	0.05000		141	74-127	18	20	L2
Bromobenzene	0.0651	0.0050	mg/kg wet	0.05000		130	73-125	18	20	L2
Bromochloromethane	0.0682	0.0050	mg/kg wet	0.05000		136	72-134	19	20	L2
Bromodichloromethane	0.0648	0.0050	mg/kg wet	0.05000		130	75-122	17	20	L2
Bromoform	0.0712	0.0050	mg/kg wet	0.05000		142	66-135	19	20	L2
Bromomethane	0.0417	0.010	mg/kg wet	0.05000		83	20-180	20	20	
Carbon Tetrachloride	0.0632	0.0050	mg/kg wet	0.05000		126	64-143	18	20	
Chlorobenzene	0.0660	0.0050	mg/kg wet	0.05000		132	74-118	15	20	L2
Chloroethane	0.0713	0.010	mg/kg wet	0.05000		143	33-149	22	20	D
Chloroform	0.0635	0.0050	mg/kg wet	0.05000		127	73-127	16	20	
Chloromethane	0.0670	0.0050	mg/kg wet	0.05000		134	45-143	31	20	D
cis-1,2-Dichloroethylene	0.0660	0.0050	mg/kg wet	0.05000		132	76-134	18	20	
cis-1,3-Dichloropropylene	0.0664	0.0050	mg/kg wet	0.05000		133	71-125	18	20	L2
Dibromochloromethane	0.0695	0.0050	mg/kg wet	0.05000		139	73-122	16	20	L2
Dichlorodifluoromethane	0.0839	0.0050	mg/kg wet	0.05000		168	26-146	18	20	L2
Ethylbenzene	0.0648	0.0050	mg/kg wet	0.05000		130	74-128	15	20	L2
Isopropyl Ether	0.0625	0.0050	mg/kg wet	0.05000		125	59-159	18	20	
Isopropylbenzene (Cumene)	0.0661	0.0050	mg/kg wet	0.05000		132	68-126	18	20	L2
m,p-Xylenes	0.128	0.010	mg/kg wet	0.1000		128	75-124	15	20	L2
Methyl Butyl Ketone (2-Hexanone)	0.0785	0.050	mg/kg wet	0.05000		157	61-157	20	20	
Methyl Ethyl Ketone (2-Butanone)	0.0763	0.10	mg/kg wet	0.05000		153	63-149	24	20	D, L2, J
Methyl Isobutyl Ketone	0.0741	0.050	mg/kg wet	0.05000		148	57-162	21	20	D

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Raleigh, NC 27610

Project: R2478

Prism Work Order: 5010401
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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0345 - 5035										
LCS Dup (P5A0345-BSD1)				Prepared & Analyzed: 01/26/15						
Methylene Chloride	0.0617	0.0050	mg/kg wet	0.05000		123	74-129	17	20	
Methyl-tert-Butyl Ether	0.0688	0.010	mg/kg wet	0.05000		138	70-130	19	20	L2
Naphthalene	0.0736	0.010	mg/kg wet	0.05000		147	57-157	21	20	D
n-Butylbenzene	0.0685	0.0050	mg/kg wet	0.05000		137	65-135	17	20	L2
n-Propylbenzene	0.0642	0.0050	mg/kg wet	0.05000		128	67-130	17	20	
o-Xylene	0.0621	0.0050	mg/kg wet	0.05000		124	74-126	16	20	
sec-Butylbenzene	0.0663	0.0050	mg/kg wet	0.05000		133	66-131	18	20	L2
Styrene	0.0711	0.0050	mg/kg wet	0.05000		142	77-121	15	20	LH
tert-Butylbenzene	0.0642	0.0050	mg/kg wet	0.05000		128	67-132	19	20	
Tetrachloroethylene	0.0679	0.0050	mg/kg wet	0.05000		136	68-130	16	20	L2
Toluene	0.0688	0.0050	mg/kg wet	0.05000		138	71-129	18	20	L2
trans-1,2-Dichloroethylene	0.0643	0.0050	mg/kg wet	0.05000		129	73-132	15	20	
trans-1,3-Dichloropropylene	0.0676	0.0050	mg/kg wet	0.05000		135	68-123	19	20	L2
Trichloroethylene	0.0689	0.0050	mg/kg wet	0.05000		138	75-133	17	20	L2
Trichlorofluoromethane	0.0725	0.0050	mg/kg wet	0.05000		145	44-146	18	20	
Vinyl acetate	0.0777	0.025	mg/kg wet	0.05000		155	85-161	17	20	
Vinyl chloride	0.0755	0.0050	mg/kg wet	0.05000		151	48-147	20	20	L2
Xylenes, total	0.190	0.015	mg/kg wet	0.1500		127	74-126	15	20	L2
Surrogate: 4-Bromofluorobenzene	*0.0674*		*mg/kg wet*	*0.05000*		*135*	*70-130*			*SR*
Surrogate: Dibromofluoromethane	*0.0684*		*mg/kg wet*	*0.05000*		*137*	*84-123*			*SR*
Surrogate: Toluene-d8	*0.0681*		*mg/kg wet*	*0.05000*		*136*	*76-129*			*SR*
Batch P5A0355 - 5030B										
Blank (P5A0355-BLK1)				Prepared & Analyzed: 01/26/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chloroethyl Vinyl Ether	BRL	5.0	ug/L							

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0355 - 5030B										
Blank (P5A0355-BLK1)				Prepared & Analyzed: 01/26/15						
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0355 - 5030B										
Blank (P5A0355-BLK1)				Prepared & Analyzed: 01/26/15						
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*58.2*		*ug/L*	*50.00*		*116*	*80-124*			
Surrogate: Dibromofluoromethane	*50.5*		*ug/L*	*50.00*		*101*	*75-129*			
Surrogate: Toluene-d8	*51.0*		*ug/L*	*50.00*		*102*	*77-123*			
LCS (P5A0355-BS1)				Prepared & Analyzed: 01/26/15						
1,1,1,2-Tetrachloroethane	20.1	0.50	ug/L	20.00		101	79-134			
1,1,1-Trichloroethane	22.2	0.50	ug/L	20.00		111	75-136			
1,1,2,2-Tetrachloroethane	19.8	0.50	ug/L	20.00		99	62-127			
1,1,2-Trichloroethane	21.4	0.50	ug/L	20.00		107	70-140			
1,1-Dichloroethane	21.9	0.50	ug/L	20.00		109	78-130			
1,1-Dichloroethylene	20.6	0.50	ug/L	20.00		103	70-154			
1,1-Dichloropropylene	21.9	0.50	ug/L	20.00		110	71-136			
1,2,3-Trichlorobenzene	18.1	2.0	ug/L	20.00		90	58-144			
1,2,3-Trichloropropane	19.1	1.0	ug/L	20.00		95	71-127			
1,2,4-Trichlorobenzene	19.6	1.0	ug/L	20.00		98	66-139			
1,2,4-Trimethylbenzene	20.1	0.50	ug/L	20.00		101	75-133			
1,2-Dibromo-3-chloropropane	18.6	2.0	ug/L	20.00		93	63-134			
1,2-Dibromoethane	19.9	0.50	ug/L	20.00		100	77-135			
1,2-Dichlorobenzene	19.4	0.50	ug/L	20.00		97	78-128			
1,2-Dichloroethane	21.2	0.50	ug/L	20.00		106	68-131			
1,2-Dichloropropane	20.7	0.50	ug/L	20.00		104	77-130			
1,3,5-Trimethylbenzene	19.6	0.50	ug/L	20.00		98	75-131			
1,3-Dichlorobenzene	19.6	0.50	ug/L	20.00		98	77-125			
1,3-Dichloropropane	20.3	0.50	ug/L	20.00		102	76-132			
1,4-Dichlorobenzene	19.7	0.50	ug/L	20.00		99	75-126			
2,2-Dichloropropane	23.7	2.0	ug/L	20.00		118	29-149			
2-Chloroethyl Vinyl Ether	19.5	5.0	ug/L	20.00		98	34-144			
2-Chlorotoluene	19.8	0.50	ug/L	20.00		99	74-126			
4-Chlorotoluene	19.7	0.50	ug/L	20.00		98	78-129			
4-Isopropyltoluene	19.8	0.50	ug/L	20.00		99	69-132			
Acetone	42.2	5.0	ug/L	40.00		105	40-166			
Acrolein	28.5	20	ug/L	40.00		71	70-130			
Acrylonitrile	42.4	20	ug/L	40.00		106	81-127			
Benzene	22.0	0.50	ug/L	20.00		110	77-128			
Bromobenzene	20.1	0.50	ug/L	20.00		100	78-129			
Bromochloromethane	21.2	0.50	ug/L	20.00		106	78-135			
Bromodichloromethane	21.9	0.50	ug/L	20.00		109	76-138			
Bromoform	19.4	1.0	ug/L	20.00		97	71-135			
Bromomethane	15.0	1.0	ug/L	20.00		75	41-168			
Carbon disulfide	19.1	5.0	ug/L	20.00		96	59-135			
Carbon Tetrachloride	23.8	0.50	ug/L	20.00		119	72-142			
Chlorobenzene	20.3	0.50	ug/L	20.00		102	78-119			
Chloroethane	22.7	0.50	ug/L	20.00		114	57-142			
Chloroform	20.6	0.50	ug/L	20.00		103	77-130			
Chloromethane	26.0	0.50	ug/L	20.00		130	47-145			

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Prism Work Order: 5010401
Time Submitted: 1/23/2015 10:50:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0355 - 5030B										
LCS (P5A0355-BS1)				Prepared & Analyzed: 01/26/15						
cis-1,2-Dichloroethylene	22.0	0.50	ug/L	20.00		110	76-141			
cis-1,3-Dichloropropylene	20.7	0.50	ug/L	20.00		104	65-140			
Dibromochloromethane	20.4	0.50	ug/L	20.00		102	75-134			
Dibromomethane	22.4	0.50	ug/L	20.00		112	76-138			
Dichlorodifluoromethane	30.0	1.0	ug/L	20.00		150	28-163			
Ethylbenzene	20.3	0.50	ug/L	20.00		101	80-127			
Hexachlorobutadiene	17.8	2.0	ug/L	20.00		89	61-134			
Isopropyl Ether	19.7	0.50	ug/L	20.00		98	60-154			
Isopropylbenzene (Cumene)	19.9	0.50	ug/L	20.00		100	70-130			
m,p-Xylenes	41.7	1.0	ug/L	40.00		104	77-133			
Methyl Butyl Ketone (2-Hexanone)	20.7	5.0	ug/L	20.00		104	64-137			
Methyl Ethyl Ketone (2-Butanone)	19.3	5.0	ug/L	20.00		97	71-134			
Methyl Isobutyl Ketone	20.7	5.0	ug/L	20.00		104	69-134			
Methylene Chloride	20.6	1.0	ug/L	20.00		103	73-131			
Methyl-tert-Butyl Ether	21.2	0.50	ug/L	20.00		106	68-135			
Naphthalene	19.9	1.0	ug/L	20.00		100	64-136			
n-Butylbenzene	20.6	1.0	ug/L	20.00		103	68-134			
n-Propylbenzene	19.8	0.50	ug/L	20.00		99	72-132			
o-Xylene	19.6	0.50	ug/L	20.00		98	78-128			
sec-Butylbenzene	19.6	0.50	ug/L	20.00		98	71-131			
Styrene	20.5	0.50	ug/L	20.00		102	78-129			
tert-Butylbenzene	18.9	0.50	ug/L	20.00		95	70-132			
Tetrachloroethylene	20.3	0.50	ug/L	20.00		101	80-129			
Toluene	21.6	0.50	ug/L	20.00		108	76-131			
trans-1,2-Dichloroethylene	21.5	0.50	ug/L	20.00		108	76-135			
trans-1,3-Dichloropropylene	21.0	0.50	ug/L	20.00		105	67-140			
Trichloroethylene	21.4	0.50	ug/L	20.00		107	77-133			
Trichlorofluoromethane	24.6	0.50	ug/L	20.00		123	62-148			
Vinyl acetate	23.3	2.0	ug/L	20.00		116	34-167			
Vinyl chloride	22.1	0.50	ug/L	20.00		110	57-141			
Surrogate: 4-Bromofluorobenzene	*56.1*		*ug/L*	*50.00*		*112*	*80-124*			
Surrogate: Dibromofluoromethane	*50.1*		*ug/L*	*50.00*		*100*	*75-129*			
Surrogate: Toluene-d8	*50.4*		*ug/L*	*50.00*		*101*	*77-123*			

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0355 - 5030B										
LCS Dup (P5A0355-BSD1)				Prepared & Analyzed: 01/26/15						
1,1,1,2-Tetrachloroethane	19.5	0.50	ug/L	20.00		98	79-134	3	20	
1,1,1-Trichloroethane	21.5	0.50	ug/L	20.00		107	75-136	3	20	
1,1,2,2-Tetrachloroethane	19.4	0.50	ug/L	20.00		97	62-127	2	20	
1,1,2-Trichloroethane	21.4	0.50	ug/L	20.00		107	70-140	0.05	20	
1,1-Dichloroethane	21.0	0.50	ug/L	20.00		105	78-130	4	20	
1,1-Dichloroethylene	20.0	0.50	ug/L	20.00		100	70-154	3	20	
1,1-Dichloropropylene	21.5	0.50	ug/L	20.00		107	71-136	2	20	
1,2,3-Trichlorobenzene	19.2	2.0	ug/L	20.00		96	58-144	6	20	
1,2,3-Trichloropropane	18.2	1.0	ug/L	20.00		91	71-127	4	20	
1,2,4-Trichlorobenzene	20.1	1.0	ug/L	20.00		101	66-139	3	20	
1,2,4-Trimethylbenzene	20.2	0.50	ug/L	20.00		101	75-133	0.1	20	
1,2-Dibromo-3-chloropropane	19.0	2.0	ug/L	20.00		95	63-134	2	20	
1,2-Dibromoethane	19.3	0.50	ug/L	20.00		96	77-135	3	20	
1,2-Dichlorobenzene	19.4	0.50	ug/L	20.00		97	78-128	0.1	20	
1,2-Dichloroethane	21.0	0.50	ug/L	20.00		105	68-131	0.9	20	
1,2-Dichloropropane	20.0	0.50	ug/L	20.00		100	77-130	4	20	
1,3,5-Trimethylbenzene	19.5	0.50	ug/L	20.00		97	75-131	0.7	20	
1,3-Dichlorobenzene	20.0	0.50	ug/L	20.00		100	77-125	2	20	
1,3-Dichloropropane	19.7	0.50	ug/L	20.00		98	76-132	3	20	
1,4-Dichlorobenzene	19.2	0.50	ug/L	20.00		96	75-126	2	20	
2,2-Dichloropropane	22.3	2.0	ug/L	20.00		111	29-149	6	20	
2-Chloroethyl Vinyl Ether	20.3	5.0	ug/L	20.00		102	34-144	4	20	
2-Chlorotoluene	19.4	0.50	ug/L	20.00		97	74-126	2	20	
4-Chlorotoluene	19.1	0.50	ug/L	20.00		96	78-129	3	20	
4-Isopropyltoluene	20.0	0.50	ug/L	20.00		100	69-132	0.9	20	
Acetone	40.7	5.0	ug/L	40.00		102	40-166	4	20	
Acrolein	30.0	20	ug/L	40.00		75	70-130	5	20	
Acrylonitrile	42.7	20	ug/L	40.00		107	81-127	0.8	20	
Benzene	21.7	0.50	ug/L	20.00		109	77-128	1	20	
Bromobenzene	20.2	0.50	ug/L	20.00		101	78-129	0.4	20	
Bromochloromethane	21.1	0.50	ug/L	20.00		106	78-135	0.3	20	
Bromodichloromethane	21.1	0.50	ug/L	20.00		105	76-138	4	20	
Bromoform	19.4	1.0	ug/L	20.00		97	71-135	0.05	20	
Bromomethane	14.3	1.0	ug/L	20.00		71	41-168	5	20	
Carbon disulfide	18.6	5.0	ug/L	20.00		93	59-135	3	20	
Carbon Tetrachloride	22.3	0.50	ug/L	20.00		112	72-142	6	20	
Chlorobenzene	20.3	0.50	ug/L	20.00		102	78-119	0.1	20	
Chloroethane	22.3	0.50	ug/L	20.00		111	57-142	2	20	
Chloroform	20.9	0.50	ug/L	20.00		104	77-130	1	20	
Chloromethane	25.6	0.50	ug/L	20.00		128	47-145	1	20	
cis-1,2-Dichloroethylene	21.3	0.50	ug/L	20.00		106	76-141	3	20	
cis-1,3-Dichloropropylene	20.6	0.50	ug/L	20.00		103	65-140	0.6	20	
Dibromochloromethane	20.1	0.50	ug/L	20.00		100	75-134	2	20	
Dibromomethane	21.3	0.50	ug/L	20.00		107	76-138	5	20	
Dichlorodifluoromethane	29.4	1.0	ug/L	20.00		147	28-163	2	20	
Ethylbenzene	20.1	0.50	ug/L	20.00		100	80-127	1	20	

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0355 - 5030B										
LCS Dup (P5A0355-BSD1)				Prepared & Analyzed: 01/26/15						
Hexachlorobutadiene	18.8	2.0	ug/L	20.00		94	61-134	6	20	
Isopropyl Ether	19.4	0.50	ug/L	20.00		97	60-154	2	20	
Isopropylbenzene (Cumene)	19.9	0.50	ug/L	20.00		99	70-130	0.1	20	
m,p-Xylenes	41.1	1.0	ug/L	40.00		103	77-133	1	20	
Methyl Butyl Ketone (2-Hexanone)	20.0	5.0	ug/L	20.00		100	64-137	3	20	
Methyl Ethyl Ketone (2-Butanone)	19.2	5.0	ug/L	20.00		96	71-134	0.7	20	
Methyl Isobutyl Ketone	20.2	5.0	ug/L	20.00		101	69-134	2	20	
Methylene Chloride	20.5	1.0	ug/L	20.00		103	73-131	0.3	20	
Methyl-tert-Butyl Ether	20.7	0.50	ug/L	20.00		104	68-135	2	20	
Naphthalene	20.3	1.0	ug/L	20.00		102	64-136	2	20	
n-Butylbenzene	20.7	1.0	ug/L	20.00		103	68-134	0.2	20	
n-Propylbenzene	19.6	0.50	ug/L	20.00		98	72-132	0.8	20	
o-Xylene	19.4	0.50	ug/L	20.00		97	78-128	1	20	
sec-Butylbenzene	19.5	0.50	ug/L	20.00		98	71-131	0.2	20	
Styrene	20.4	0.50	ug/L	20.00		102	78-129	0.1	20	
tert-Butylbenzene	18.5	0.50	ug/L	20.00		92	70-132	2	20	
Tetrachloroethylene	20.6	0.50	ug/L	20.00		103	80-129	2	20	
Toluene	21.7	0.50	ug/L	20.00		108	76-131	0.4	20	
trans-1,2-Dichloroethylene	20.8	0.50	ug/L	20.00		104	76-135	4	20	
trans-1,3-Dichloropropylene	20.8	0.50	ug/L	20.00		104	67-140	1	20	
Trichloroethylene	21.0	0.50	ug/L	20.00		105	77-133	2	20	
Trichlorofluoromethane	23.2	0.50	ug/L	20.00		116	62-148	6	20	
Vinyl acetate	22.9	2.0	ug/L	20.00		115	34-167	1	20	
Vinyl chloride	21.5	0.50	ug/L	20.00		107	57-141	3	20	
Surrogate: 4-Bromofluorobenzene	*54.3*		*ug/L*	*50.00*		*109*	*80-124*			
Surrogate: Dibromofluoromethane	*48.6*		*ug/L*	*50.00*		*97*	*75-129*			
Surrogate: Toluene-d8	*50.1*		*ug/L*	*50.00*		*100*	*77-123*			

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0375 - 5035										
Blank (P5A0375-BLK1)				Prepared & Analyzed: 01/27/15						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0375 - 5035										
Blank (P5A0375-BLK1)				Prepared & Analyzed: 01/27/15						
Methylene Chloride	BRL	0.0050	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0524*		*mg/kg wet*	*0.05000*		*105*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0507*		*mg/kg wet*	*0.05000*		*101*	*84-123*			
Surrogate: Toluene-d8	*0.0530*		*mg/kg wet*	*0.05000*		*106*	*76-129*			
LCS (P5A0375-BS1)				Prepared & Analyzed: 01/27/15						
1,1,1,2-Tetrachloroethane	0.0530	0.0050	mg/kg wet	0.05000		106	72-115			
1,1,1-Trichloroethane	0.0477	0.0050	mg/kg wet	0.05000		95	67-131			
1,1,2,2-Tetrachloroethane	0.0552	0.0050	mg/kg wet	0.05000		110	56-126			
1,1,2-Trichloroethane	0.0539	0.0050	mg/kg wet	0.05000		108	70-133			
1,1-Dichloroethane	0.0530	0.0050	mg/kg wet	0.05000		106	74-127			
1,1-Dichloroethylene	0.0489	0.0050	mg/kg wet	0.05000		98	67-149			
1,1-Dichloropropylene	0.0536	0.0050	mg/kg wet	0.05000		107	71-130			
1,2,3-Trichlorobenzene	0.0540	0.0050	mg/kg wet	0.05000		108	68-130			
1,2,3-Trichloropropane	0.0485	0.0050	mg/kg wet	0.05000		97	60-137			
1,2,4-Trichlorobenzene	0.0535	0.0050	mg/kg wet	0.05000		107	66-125			
1,2,4-Trimethylbenzene	0.0563	0.0050	mg/kg wet	0.05000		113	69-129			
1,2-Dibromoethane	0.0531	0.0050	mg/kg wet	0.05000		106	70-132			
1,2-Dichlorobenzene	0.0535	0.0050	mg/kg wet	0.05000		107	72-123			
1,2-Dichloroethane	0.0448	0.0050	mg/kg wet	0.05000		90	68-128			
1,2-Dichloropropane	0.0556	0.0050	mg/kg wet	0.05000		111	73-130			
1,3,5-Trimethylbenzene	0.0556	0.0050	mg/kg wet	0.05000		111	69-128			
1,3-Dichlorobenzene	0.0538	0.0050	mg/kg wet	0.05000		108	71-120			
1,3-Dichloropropane	0.0522	0.0050	mg/kg wet	0.05000		104	75-124			
1,4-Dichlorobenzene	0.0537	0.0050	mg/kg wet	0.05000		107	71-123			
2,2-Dichloropropane	0.0501	0.0050	mg/kg wet	0.05000		100	50-142			
2-Chlorotoluene	0.0533	0.0050	mg/kg wet	0.05000		107	67-124			
4-Chlorotoluene	0.0538	0.0050	mg/kg wet	0.05000		108	71-126			
4-Isopropyltoluene	0.0558	0.0050	mg/kg wet	0.05000		112	68-129			
Acetone	0.0941	0.050	mg/kg wet	0.1000		94	29-198			

Mid-Atlantic Associates, Inc. - Raleigh
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Raleigh, NC 27610

Project: R2478

Prism Work Order: 5010401
Time Submitted: 1/23/2015 10:50:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0375 - 5035										
LCS (P5A0375-BS1)				Prepared & Analyzed: 01/27/15						
Benzene	0.0579	0.0030	mg/kg wet	0.05000		116	74-127			
Bromobenzene	0.0537	0.0050	mg/kg wet	0.05000		107	73-125			
Bromochloromethane	0.0550	0.0050	mg/kg wet	0.05000		110	72-134			
Bromodichloromethane	0.0503	0.0050	mg/kg wet	0.05000		101	75-122			
Bromoform	0.0518	0.0050	mg/kg wet	0.05000		104	66-135			
Bromomethane	0.0337	0.010	mg/kg wet	0.05000		67	20-180			
Carbon Tetrachloride	0.0492	0.0050	mg/kg wet	0.05000		98	64-143			
Chlorobenzene	0.0552	0.0050	mg/kg wet	0.05000		110	74-118			
Chloroethane	0.0598	0.010	mg/kg wet	0.05000		120	33-149			
Chloroform	0.0504	0.0050	mg/kg wet	0.05000		101	73-127			
Chloromethane	0.0482	0.0050	mg/kg wet	0.05000		96	45-143			
cis-1,2-Dichloroethylene	0.0534	0.0050	mg/kg wet	0.05000		107	76-134			
cis-1,3-Dichloropropylene	0.0536	0.0050	mg/kg wet	0.05000		107	71-125			
Dibromochloromethane	0.0529	0.0050	mg/kg wet	0.05000		106	73-122			
Dichlorodifluoromethane	0.0633	0.0050	mg/kg wet	0.05000		127	26-146			
Ethylbenzene	0.0537	0.0050	mg/kg wet	0.05000		107	74-128			
Isopropyl Ether	0.0514	0.0050	mg/kg wet	0.05000		103	59-159			
Isopropylbenzene (Cumene)	0.0556	0.0050	mg/kg wet	0.05000		111	68-126			
m,p-Xylenes	0.106	0.010	mg/kg wet	0.1000		106	75-124			
Methyl Butyl Ketone (2-Hexanone)	0.0519	0.050	mg/kg wet	0.05000		104	61-157			
Methyl Ethyl Ketone (2-Butanone)	0.0490	0.10	mg/kg wet	0.05000		98	63-149			J
Methyl Isobutyl Ketone	0.0502	0.050	mg/kg wet	0.05000		100	57-162			
Methylene Chloride	0.0499	0.0050	mg/kg wet	0.05000		100	74-129			
Methyl-tert-Butyl Ether	0.0531	0.010	mg/kg wet	0.05000		106	70-130			
Naphthalene	0.0548	0.010	mg/kg wet	0.05000		110	57-157			
n-Butylbenzene	0.0567	0.0050	mg/kg wet	0.05000		113	65-135			
n-Propylbenzene	0.0543	0.0050	mg/kg wet	0.05000		109	67-130			
o-Xylene	0.0513	0.0050	mg/kg wet	0.05000		103	74-126			
sec-Butylbenzene	0.0556	0.0050	mg/kg wet	0.05000		111	66-131			
Styrene	0.0589	0.0050	mg/kg wet	0.05000		118	77-121			
tert-Butylbenzene	0.0532	0.0050	mg/kg wet	0.05000		106	67-132			
Tetrachloroethylene	0.0559	0.0050	mg/kg wet	0.05000		112	68-130			
Toluene	0.0566	0.0050	mg/kg wet	0.05000		113	71-129			
trans-1,2-Dichloroethylene	0.0531	0.0050	mg/kg wet	0.05000		106	73-132			
trans-1,3-Dichloropropylene	0.0527	0.0050	mg/kg wet	0.05000		105	68-123			
Trichloroethylene	0.0561	0.0050	mg/kg wet	0.05000		112	75-133			
Trichlorofluoromethane	0.0550	0.0050	mg/kg wet	0.05000		110	44-146			
Vinyl acetate	0.0584	0.025	mg/kg wet	0.05000		117	85-161			
Vinyl chloride	0.0616	0.0050	mg/kg wet	0.05000		123	48-147			
Xylenes, total	0.157	0.015	mg/kg wet	0.1500		105	74-126			
Surrogate: 4-Bromofluorobenzene	*0.0533*		*mg/kg wet*	*0.05000*		*107*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0517*		*mg/kg wet*	*0.05000*		*103*	*84-123*			
Surrogate: Toluene-d8	*0.0539*		*mg/kg wet*	*0.05000*		*108*	*76-129*			

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Project: R2478

Prism Work Order: 5010401
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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0375 - 5035										
LCS Dup (P5A0375-BSD1)				Prepared & Analyzed: 01/27/15						
1,1,1,2-Tetrachloroethane	0.0516	0.0050	mg/kg wet	0.05000		103	72-115	3	20	
1,1,1-Trichloroethane	0.0458	0.0050	mg/kg wet	0.05000		92	67-131	4	20	
1,1,2,2-Tetrachloroethane	0.0530	0.0050	mg/kg wet	0.05000		106	56-126	4	20	
1,1,2-Trichloroethane	0.0524	0.0050	mg/kg wet	0.05000		105	70-133	3	20	
1,1-Dichloroethane	0.0504	0.0050	mg/kg wet	0.05000		101	74-127	5	20	
1,1-Dichloroethylene	0.0462	0.0050	mg/kg wet	0.05000		92	67-149	6	20	
1,1-Dichloropropylene	0.0498	0.0050	mg/kg wet	0.05000		100	71-130	7	20	
1,2,3-Trichlorobenzene	0.0541	0.0050	mg/kg wet	0.05000		108	68-130	0.3	20	
1,2,3-Trichloropropane	0.0458	0.0050	mg/kg wet	0.05000		92	60-137	6	20	
1,2,4-Trichlorobenzene	0.0526	0.0050	mg/kg wet	0.05000		105	66-125	2	20	
1,2,4-Trimethylbenzene	0.0539	0.0050	mg/kg wet	0.05000		108	69-129	4	20	
1,2-Dibromoethane	0.0515	0.0050	mg/kg wet	0.05000		103	70-132	3	20	
1,2-Dichlorobenzene	0.0528	0.0050	mg/kg wet	0.05000		106	72-123	1	20	
1,2-Dichloroethane	0.0440	0.0050	mg/kg wet	0.05000		88	68-128	2	20	
1,2-Dichloropropane	0.0536	0.0050	mg/kg wet	0.05000		107	73-130	4	20	
1,3,5-Trimethylbenzene	0.0524	0.0050	mg/kg wet	0.05000		105	69-128	6	20	
1,3-Dichlorobenzene	0.0526	0.0050	mg/kg wet	0.05000		105	71-120	2	20	
1,3-Dichloropropane	0.0503	0.0050	mg/kg wet	0.05000		101	75-124	4	20	
1,4-Dichlorobenzene	0.0525	0.0050	mg/kg wet	0.05000		105	71-123	2	20	
2,2-Dichloropropane	0.0474	0.0050	mg/kg wet	0.05000		95	50-142	6	20	
2-Chlorotoluene	0.0511	0.0050	mg/kg wet	0.05000		102	67-124	4	20	
4-Chlorotoluene	0.0522	0.0050	mg/kg wet	0.05000		104	71-126	3	20	
4-Isopropyltoluene	0.0529	0.0050	mg/kg wet	0.05000		106	68-129	5	20	
Acetone	0.0889	0.050	mg/kg wet	0.1000		89	29-198	6	20	
Benzene	0.0556	0.0030	mg/kg wet	0.05000		111	74-127	4	20	
Bromobenzene	0.0515	0.0050	mg/kg wet	0.05000		103	73-125	4	20	
Bromochloromethane	0.0552	0.0050	mg/kg wet	0.05000		110	72-134	0.2	20	
Bromodichloromethane	0.0495	0.0050	mg/kg wet	0.05000		99	75-122	2	20	
Bromoform	0.0507	0.0050	mg/kg wet	0.05000		101	66-135	2	20	
Bromomethane	0.0372	0.010	mg/kg wet	0.05000		74	20-180	10	20	
Carbon Tetrachloride	0.0478	0.0050	mg/kg wet	0.05000		96	64-143	3	20	
Chlorobenzene	0.0534	0.0050	mg/kg wet	0.05000		107	74-118	3	20	
Chloroethane	0.0586	0.010	mg/kg wet	0.05000		117	33-149	2	20	
Chloroform	0.0485	0.0050	mg/kg wet	0.05000		97	73-127	4	20	
Chloromethane	0.0561	0.0050	mg/kg wet	0.05000		112	45-143	15	20	
cis-1,2-Dichloroethylene	0.0509	0.0050	mg/kg wet	0.05000		102	76-134	5	20	
cis-1,3-Dichloropropylene	0.0518	0.0050	mg/kg wet	0.05000		104	71-125	3	20	
Dibromochloromethane	0.0519	0.0050	mg/kg wet	0.05000		104	73-122	2	20	
Dichlorodifluoromethane	0.0593	0.0050	mg/kg wet	0.05000		119	26-146	6	20	
Ethylbenzene	0.0514	0.0050	mg/kg wet	0.05000		103	74-128	4	20	
Isopropyl Ether	0.0495	0.0050	mg/kg wet	0.05000		99	59-159	4	20	
Isopropylbenzene (Cumene)	0.0529	0.0050	mg/kg wet	0.05000		106	68-126	5	20	
m,p-Xylenes	0.102	0.010	mg/kg wet	0.1000		102	75-124	4	20	
Methyl Butyl Ketone (2-Hexanone)	0.0495	0.050	mg/kg wet	0.05000		99	61-157	5	20	J
Methyl Ethyl Ketone (2-Butanone)	0.0458	0.10	mg/kg wet	0.05000		92	63-149	7	20	J
Methyl Isobutyl Ketone	0.0478	0.050	mg/kg wet	0.05000		96	57-162	5	20	J

Mid-Atlantic Associates, Inc. - Raleigh
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Raleigh, NC 27610

Project: R2478

Prism Work Order: 5010401
Time Submitted: 1/23/2015 10:50:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0375 - 5035										
LCS Dup (P5A0375-BSD1)				Prepared & Analyzed: 01/27/15						
Methylene Chloride	0.0481	0.0050	mg/kg wet	0.05000		96	74-129	4	20	
Methyl-tert-Butyl Ether	0.0513	0.010	mg/kg wet	0.05000		103	70-130	4	20	
Naphthalene	0.0538	0.010	mg/kg wet	0.05000		108	57-157	2	20	
n-Butylbenzene	0.0538	0.0050	mg/kg wet	0.05000		108	65-135	5	20	
n-Propylbenzene	0.0517	0.0050	mg/kg wet	0.05000		103	67-130	5	20	
o-Xylene	0.0493	0.0050	mg/kg wet	0.05000		99	74-126	4	20	
sec-Butylbenzene	0.0528	0.0050	mg/kg wet	0.05000		106	66-131	5	20	
Styrene	0.0570	0.0050	mg/kg wet	0.05000		114	77-121	3	20	
tert-Butylbenzene	0.0506	0.0050	mg/kg wet	0.05000		101	67-132	5	20	
Tetrachloroethylene	0.0529	0.0050	mg/kg wet	0.05000		106	68-130	6	20	
Toluene	0.0541	0.0050	mg/kg wet	0.05000		108	71-129	4	20	
trans-1,2-Dichloroethylene	0.0494	0.0050	mg/kg wet	0.05000		99	73-132	7	20	
trans-1,3-Dichloropropylene	0.0511	0.0050	mg/kg wet	0.05000		102	68-123	3	20	
Trichloroethylene	0.0535	0.0050	mg/kg wet	0.05000		107	75-133	5	20	
Trichlorofluoromethane	0.0514	0.0050	mg/kg wet	0.05000		103	44-146	7	20	
Vinyl acetate	0.0558	0.025	mg/kg wet	0.05000		112	85-161	5	20	
Vinyl chloride	0.0592	0.0050	mg/kg wet	0.05000		118	48-147	4	20	
Xylenes, total	0.151	0.015	mg/kg wet	0.1500		101	74-126	4	20	
Surrogate: 4-Bromofluorobenzene	*0.0539*		*mg/kg wet*	*0.05000*		*108*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0531*		*mg/kg wet*	*0.05000*		*106*	*84-123*			
Surrogate: Toluene-d8	*0.0548*		*mg/kg wet*	*0.05000*		*110*	*76-129*			

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Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0370 - 5035										
Blank (P5A0370-BLK1)				Prepared & Analyzed: 01/27/15						
1,2,4-Trimethylbenzene	BRL	0.25	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.25	mg/kg wet							
4-Isopropyltoluene	BRL	0.25	mg/kg wet							
m,p-Xylenes	BRL	0.50	mg/kg wet							
n-Propylbenzene	BRL	0.25	mg/kg wet							
sec-Butylbenzene	BRL	0.25	mg/kg wet							
Xylenes, total	BRL	0.75	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*1.12*		*mg/kg wet*	*1.000*		*112*	*70-130*			
Surrogate: Dibromofluoromethane	*1.02*		*mg/kg wet*	*1.000*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.953*		*mg/kg wet*	*1.000*		*95*	*70-130*			
LCS (P5A0370-BS1)				Prepared & Analyzed: 01/27/15						
1,2,4-Trimethylbenzene	0.990	0.25	mg/kg wet	1.000		99	69-126			
1,3,5-Trimethylbenzene	0.962	0.25	mg/kg wet	1.000		96	69-124			
4-Isopropyltoluene	0.956	0.25	mg/kg wet	1.000		96	71-126			
m,p-Xylenes	1.83	0.50	mg/kg wet	2.000		92	64-125			
n-Propylbenzene	0.917	0.25	mg/kg wet	1.000		92	68-128			
sec-Butylbenzene	0.950	0.25	mg/kg wet	1.000		95	71-128			
Xylenes, total	2.73	0.75	mg/kg wet	3.000		91	74-126			
Surrogate: 4-Bromofluorobenzene	*1.06*		*mg/kg wet*	*1.000*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*1.06*		*mg/kg wet*	*1.000*		*106*	*70-130*			
Surrogate: Toluene-d8	*0.993*		*mg/kg wet*	*1.000*		*99*	*70-130*			
LCS Dup (P5A0370-BSD1)				Prepared & Analyzed: 01/27/15						
1,2,4-Trimethylbenzene	0.966	0.25	mg/kg wet	1.000		97	69-126	3	20	
1,3,5-Trimethylbenzene	0.962	0.25	mg/kg wet	1.000		96	69-124	0	20	
4-Isopropyltoluene	0.950	0.25	mg/kg wet	1.000		95	71-126	0.7	20	
m,p-Xylenes	1.77	0.50	mg/kg wet	2.000		89	64-125	3	20	
n-Propylbenzene	0.918	0.25	mg/kg wet	1.000		92	68-128	0.1	20	
sec-Butylbenzene	0.924	0.25	mg/kg wet	1.000		92	71-128	3	20	
Xylenes, total	2.65	0.75	mg/kg wet	3.000		88	74-126	3	200	
Surrogate: 4-Bromofluorobenzene	*1.04*		*mg/kg wet*	*1.000*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*1.00*		*mg/kg wet*	*1.000*		*100*	*70-130*			
Surrogate: Toluene-d8	*0.945*		*mg/kg wet*	*1.000*		*94*	*70-130*			

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Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0395 - 5035										
Blank (P5A0395-BLK1)				Prepared & Analyzed: 01/28/15						
1,2,4-Trimethylbenzene	BRL	0.25	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.25	mg/kg wet							
4-Isopropyltoluene	BRL	0.25	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.25	mg/kg wet							
m,p-Xylenes	BRL	0.50	mg/kg wet							
Naphthalene	BRL	0.50	mg/kg wet							
n-Butylbenzene	BRL	0.25	mg/kg wet							
n-Propylbenzene	BRL	0.25	mg/kg wet							
sec-Butylbenzene	BRL	0.25	mg/kg wet							
tert-Butylbenzene	BRL	0.25	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*1.11*		*mg/kg wet*	*1.000*		*111*	*70-130*			
Surrogate: Dibromofluoromethane	*1.01*		*mg/kg wet*	*1.000*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.972*		*mg/kg wet*	*1.000*		*97*	*70-130*			
LCS (P5A0395-BS1)				Prepared & Analyzed: 01/28/15						
1,2,4-Trimethylbenzene	0.984	0.25	mg/kg wet	1.000		98	69-126			
1,3,5-Trimethylbenzene	0.964	0.25	mg/kg wet	1.000		96	69-124			
4-Isopropyltoluene	0.954	0.25	mg/kg wet	1.000		95	71-126			
Isopropylbenzene (Cumene)	0.967	0.25	mg/kg wet	1.000		97	68-129			
m,p-Xylenes	1.81	0.50	mg/kg wet	2.000		90	64-125			
Naphthalene	0.922	0.50	mg/kg wet	1.000		92	58-129			
n-Butylbenzene	0.972	0.25	mg/kg wet	1.000		97	71-126			
n-Propylbenzene	0.947	0.25	mg/kg wet	1.000		95	68-128			
sec-Butylbenzene	0.940	0.25	mg/kg wet	1.000		94	71-128			
tert-Butylbenzene	0.948	0.25	mg/kg wet	1.000		95	71-126			
Surrogate: 4-Bromofluorobenzene	*1.09*		*mg/kg wet*	*1.000*		*109*	*70-130*			
Surrogate: Dibromofluoromethane	*1.06*		*mg/kg wet*	*1.000*		*106*	*70-130*			
Surrogate: Toluene-d8	*0.977*		*mg/kg wet*	*1.000*		*98*	*70-130*			

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Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0395 - 5035										
LCS Dup (P5A0395-BSD1)				Prepared & Analyzed: 01/28/15						
1,2,4-Trimethylbenzene	0.974	0.25	mg/kg wet	1.000		97	69-126	0.9	20	
1,3,5-Trimethylbenzene	0.950	0.25	mg/kg wet	1.000		95	69-124	1	20	
4-Isopropyltoluene	0.958	0.25	mg/kg wet	1.000		96	71-126	0.5	20	
Isopropylbenzene (Cumene)	0.940	0.25	mg/kg wet	1.000		94	68-129	3	20	
m,p-Xylenes	1.73	0.50	mg/kg wet	2.000		86	64-125	5	20	
Naphthalene	0.898	0.50	mg/kg wet	1.000		90	58-129	3	20	
n-Butylbenzene	0.942	0.25	mg/kg wet	1.000		94	71-126	3	20	
n-Propylbenzene	0.931	0.25	mg/kg wet	1.000		93	68-128	2	20	
sec-Butylbenzene	0.921	0.25	mg/kg wet	1.000		92	71-128	2	20	
tert-Butylbenzene	0.927	0.25	mg/kg wet	1.000		93	71-126	2	20	
Surrogate: 4-Bromofluorobenzene	*1.06*		*mg/kg wet*	*1.000*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*0.978*		*mg/kg wet*	*1.000*		*98*	*70-130*			
Surrogate: Toluene-d8	*0.917*		*mg/kg wet*	*1.000*		*92*	*70-130*			

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Prism Work Order: 5010401
Time Submitted: 1/23/2015 10:50:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0299 - 3510C MS										
Blank (P5A0299-BLK1)				Prepared & Analyzed: 01/23/15						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,5-Trichlorophenol	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Methylphenol	BRL	10	ug/L							
2-Nitroaniline	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
3-Nitroaniline	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitroaniline	BRL	10	ug/L							
4-Nitrophenol	BRL	10	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Aniline	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Azobenzene	BRL	10	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0299 - 3510C MS										
Blank (P5A0299-BLK1)				Prepared & Analyzed: 01/23/15						
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*75.8*		*ug/L*	*100.0*		*76*	*49-109*			
Surrogate: 2-Fluorobiphenyl	*32.3*		*ug/L*	*50.00*		*65*	*55-96*			
Surrogate: 2-Fluorophenol	*40.6*		*ug/L*	*100.0*		*41*	*27-74*			
Surrogate: Nitrobenzene-d5	*30.5*		*ug/L*	*50.00*		*61*	*53-99*			
Surrogate: Phenol-d5	*25.1*		*ug/L*	*100.0*		*25*	*11-52*			
Surrogate: Terphenyl-d14	*35.6*		*ug/L*	*50.00*		*71*	*42-133*			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0299 - 3510C MS										
LCS (P5A0299-BS1)				Prepared & Analyzed: 01/23/15						
1,2,4-Trichlorobenzene	37.2	10	ug/L	50.00		74	45-103			
1,2-Dichlorobenzene	34.5	10	ug/L	50.00		69	43-100			
1,3-Dichlorobenzene	33.2	10	ug/L	50.00		66	42-98			
1,4-Dichlorobenzene	34.5	10	ug/L	50.00		69	42-100			
1-Methylnaphthalene	40.3	10	ug/L	50.00		81	45-135			
2,4,5-Trichlorophenol	44.8	10	ug/L	50.00		90	66-120			
2,4,6-Trichlorophenol	44.0	10	ug/L	50.00		88	62-121			
2,4-Dichlorophenol	39.0	10	ug/L	50.00		78	58-113			
2,4-Dimethylphenol	38.0	10	ug/L	50.00		76	42-120			
2,4-Dinitrophenol	35.1	10	ug/L	50.00		70	27-129			
2,4-Dinitrotoluene	42.3	10	ug/L	50.00		85	62-136			
2,6-Dinitrotoluene	42.2	10	ug/L	50.00		84	64-129			
2-Chloronaphthalene	57.0	10	ug/L	50.00		114	38-141			
2-Chlorophenol	33.9	10	ug/L	50.00		68	49-107			
2-Methylnaphthalene	38.0	10	ug/L	50.00		76	55-112			
2-Methylphenol	30.4	10	ug/L	50.00		61	40-106			
2-Nitroaniline	40.9	10	ug/L	50.00		82	65-122			
2-Nitrophenol	36.9	10	ug/L	50.00		74	57-115			
3,3'-Dichlorobenzidine	38.7	10	ug/L	50.00		77	58-139			
3/4-Methylphenol	29.5	10	ug/L	50.00		59	34-101			
3-Nitroaniline	41.7	10	ug/L	50.00		83	52-155			
4,6-Dinitro-2-methylphenol	40.9	10	ug/L	50.00		82	49-138			
4-Bromophenyl phenyl ether	38.8	10	ug/L	50.00		78	63-135			
4-Chloro-3-methylphenol	41.7	10	ug/L	50.00		83	33-149			
4-Chloroaniline	42.1	10	ug/L	50.00		84	44-163			
4-Chlorophenyl phenyl ether	39.9	10	ug/L	50.00		80	63-129			
4-Nitroaniline	44.1	10	ug/L	50.00		88	63-147			
4-Nitrophenol	20.7	10	ug/L	50.00		41	10-77			
Acenaphthene	42.4	10	ug/L	50.00		85	64-118			
Acenaphthylene	42.1	10	ug/L	50.00		84	65-119			
Aniline	38.8	10	ug/L	50.00		78	12-197			
Anthracene	43.2	10	ug/L	50.00		86	69-134			
Azobenzene	40.7	10	ug/L	50.00		81	56-129			
Benzo(a)anthracene	41.2	10	ug/L	50.00		82	71-125			
Benzo(a)pyrene	41.5	10	ug/L	50.00		83	67-135			
Benzo(b)fluoranthene	40.6	10	ug/L	50.00		81	56-145			
Benzo(g,h,i)perylene	41.6	10	ug/L	50.00		83	44-149			
Benzo(k)fluoranthene	41.8	10	ug/L	50.00		84	65-138			
Benzoic Acid	9.75	100	ug/L	50.00		20	10-125			J
Benzyl alcohol	27.3	10	ug/L	50.00		55	35-111			
bis(2-Chloroethoxy)methane	34.1	10	ug/L	50.00		68	49-126			
Bis(2-Chloroethyl)ether	30.4	10	ug/L	50.00		61	47-124			
Bis(2-chloroisopropyl)ether	29.9	10	ug/L	50.00		60	42-126			
Bis(2-Ethylhexyl)phthalate	40.1	10	ug/L	50.00		80	59-139			
Butyl benzyl phthalate	38.6	10	ug/L	50.00		77	67-133			
Chrysene	39.3	10	ug/L	50.00		79	64-124			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0299 - 3510C MS										
LCS (P5A0299-BS1)				Prepared & Analyzed: 01/23/15						
Dibenzo(a,h)anthracene	41.2	10	ug/L	50.00		82	49-144			
Dibenzofuran	41.2	10	ug/L	50.00		82	68-113			
Diethyl phthalate	42.3	10	ug/L	50.00		85	70-124			
Dimethyl phthalate	43.3	10	ug/L	50.00		87	71-117			
Di-n-butyl phthalate	44.1	10	ug/L	50.00		88	69-128			
Di-n-octyl phthalate	40.4	10	ug/L	50.00		81	52-150			
Fluoranthene	43.2	10	ug/L	50.00		86	66-135			
Fluorene	43.3	10	ug/L	50.00		87	67-124			
Hexachlorobenzene	45.0	10	ug/L	50.00		90	62-124			
Hexachlorobutadiene	36.5	10	ug/L	50.00		73	42-105			
Hexachlorocyclopentadiene	37.0	10	ug/L	50.00		74	32-117			
Hexachloroethane	33.2	10	ug/L	50.00		66	40-99			
Indeno(1,2,3-cd)pyrene	45.4	10	ug/L	50.00		91	40-150			
Isophorone	39.4	10	ug/L	50.00		79	54-125			
Naphthalene	36.8	10	ug/L	50.00		74	54-111			
Nitrobenzene	35.2	10	ug/L	50.00		70	51-117			
N-Nitroso-di-n-propylamine	37.0	10	ug/L	50.00		74	55-115			
N-Nitrosodiphenylamine	40.9	10	ug/L	50.00		82	70-152			
Pentachlorophenol	37.8	10	ug/L	50.00		76	23-139			
Phenanthrene	42.6	10	ug/L	50.00		85	68-128			
Phenol	16.3	10	ug/L	50.00		33	12-58			
Pyrene	40.1	10	ug/L	50.00		80	62-139			
Surrogate: 2,4,6-Tribromophenol	*98.7*		*ug/L*	*100.0*		*99*	*49-109*			
Surrogate: 2-Fluorobiphenyl	*45.8*		*ug/L*	*50.00*		*92*	*55-96*			
Surrogate: 2-Fluorophenol	*48.7*		*ug/L*	*100.0*		*49*	*27-74*			
Surrogate: Nitrobenzene-d5	*39.8*		*ug/L*	*50.00*		*80*	*53-99*			
Surrogate: Phenol-d5	*30.1*		*ug/L*	*100.0*		*30*	*11-52*			
Surrogate: Terphenyl-d14	*47.5*		*ug/L*	*50.00*		*95*	*42-133*			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0299 - 3510C MS										
LCS Dup (P5A0299-BSD1)				Prepared & Analyzed: 01/23/15						
1,2,4-Trichlorobenzene	39.6	10	ug/L	50.00		79	45-103	6	20	
1,2-Dichlorobenzene	37.4	10	ug/L	50.00		75	43-100	8	20	
1,3-Dichlorobenzene	35.8	10	ug/L	50.00		72	42-98	8	20	
1,4-Dichlorobenzene	36.9	10	ug/L	50.00		74	42-100	7	20	
1-Methylnaphthalene	42.2	10	ug/L	50.00		84	45-135	5	20	
2,4,5-Trichlorophenol	46.5	10	ug/L	50.00		93	66-120	4	20	
2,4,6-Trichlorophenol	45.3	10	ug/L	50.00		91	62-121	3	20	
2,4-Dichlorophenol	41.8	10	ug/L	50.00		84	58-113	7	20	
2,4-Dimethylphenol	39.9	10	ug/L	50.00		80	42-120	5	20	
2,4-Dinitrophenol	42.3	10	ug/L	50.00		85	27-129	19	20	
2,4-Dinitrotoluene	44.8	10	ug/L	50.00		90	62-136	6	20	
2,6-Dinitrotoluene	43.4	10	ug/L	50.00		87	64-129	3	20	
2-Chloronaphthalene	48.2	10	ug/L	50.00		96	38-141	17	20	
2-Chlorophenol	35.9	10	ug/L	50.00		72	49-107	6	20	
2-Methylnaphthalene	39.9	10	ug/L	50.00		80	55-112	5	20	
2-Methylphenol	31.7	10	ug/L	50.00		63	40-106	4	20	
2-Nitroaniline	43.0	10	ug/L	50.00		86	65-122	5	20	
2-Nitrophenol	40.2	10	ug/L	50.00		80	57-115	8	20	
3,3'-Dichlorobenzidine	42.0	10	ug/L	50.00		84	58-139	8	20	
3/4-Methylphenol	30.9	10	ug/L	50.00		62	34-101	5	20	
3-Nitroaniline	42.9	10	ug/L	50.00		86	52-155	3	20	
4,6-Dinitro-2-methylphenol	47.7	10	ug/L	50.00		95	49-138	15	20	
4-Bromophenyl phenyl ether	42.7	10	ug/L	50.00		85	63-135	10	20	
4-Chloro-3-methylphenol	43.6	10	ug/L	50.00		87	33-149	4	20	
4-Chloroaniline	42.5	10	ug/L	50.00		85	44-163	0.9	20	
4-Chlorophenyl phenyl ether	41.8	10	ug/L	50.00		84	63-129	5	20	
4-Nitroaniline	46.4	10	ug/L	50.00		93	63-147	5	20	
4-Nitrophenol	23.9	10	ug/L	50.00		48	10-77	14	20	
Acenaphthene	43.0	10	ug/L	50.00		86	64-118	1	20	
Acenaphthylene	43.1	10	ug/L	50.00		86	65-119	2	20	
Aniline	40.2	10	ug/L	50.00		80	12-197	4	20	
Anthracene	46.7	10	ug/L	50.00		93	69-134	8	20	
Azobenzene	43.9	10	ug/L	50.00		88	56-129	8	20	
Benzo(a)anthracene	44.2	10	ug/L	50.00		88	71-125	7	20	
Benzo(a)pyrene	45.6	10	ug/L	50.00		91	67-135	9	20	
Benzo(b)fluoranthene	47.2	10	ug/L	50.00		94	56-145	15	20	
Benzo(g,h,i)perylene	45.1	10	ug/L	50.00		90	44-149	8	20	
Benzo(k)fluoranthene	43.1	10	ug/L	50.00		86	65-138	3	20	
Benzoic Acid	11.2	100	ug/L	50.00		22	10-125	14	20	J
Benzyl alcohol	27.4	10	ug/L	50.00		55	35-111	0.1	20	
bis(2-Chloroethoxy)methane	36.1	10	ug/L	50.00		72	49-126	6	20	
Bis(2-Chloroethyl)ether	32.6	10	ug/L	50.00		65	47-124	7	20	
Bis(2-chloroisopropyl)ether	31.4	10	ug/L	50.00		63	42-126	5	20	
Bis(2-Ethylhexyl)phthalate	44.1	10	ug/L	50.00		88	59-139	9	20	
Butyl benzyl phthalate	42.8	10	ug/L	50.00		86	67-133	10	20	
Chrysene	42.0	10	ug/L	50.00		84	64-124	6	20	

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0299 - 3510C MS										
LCS Dup (P5A0299-BSD1)				Prepared & Analyzed: 01/23/15						
Dibenzo(a,h)anthracene	44.4	10	ug/L	50.00		89	49-144	8	20	
Dibenzofuran	43.0	10	ug/L	50.00		86	68-113	4	20	
Diethyl phthalate	44.3	10	ug/L	50.00		89	70-124	5	20	
Dimethyl phthalate	45.5	10	ug/L	50.00		91	71-117	5	20	
Di-n-butyl phthalate	48.3	10	ug/L	50.00		97	69-128	9	20	
Di-n-octyl phthalate	44.4	10	ug/L	50.00		89	52-150	9	20	
Fluoranthene	47.0	10	ug/L	50.00		94	66-135	8	20	
Fluorene	44.9	10	ug/L	50.00		90	67-124	4	20	
Hexachlorobenzene	49.2	10	ug/L	50.00		98	62-124	9	20	
Hexachlorobutadiene	39.6	10	ug/L	50.00		79	42-105	8	20	
Hexachlorocyclopentadiene	39.5	10	ug/L	50.00		79	32-117	6	20	
Hexachloroethane	36.3	10	ug/L	50.00		73	40-99	9	20	
Indeno(1,2,3-cd)pyrene	49.4	10	ug/L	50.00		99	40-150	8	20	
Isophorone	40.3	10	ug/L	50.00		81	54-125	2	20	
Naphthalene	39.2	10	ug/L	50.00		78	54-111	6	20	
Nitrobenzene	37.9	10	ug/L	50.00		76	51-117	7	20	
N-Nitroso-di-n-propylamine	38.4	10	ug/L	50.00		77	55-115	4	20	
N-Nitrosodiphenylamine	44.6	10	ug/L	50.00		89	70-152	8	20	
Pentachlorophenol	47.2	10	ug/L	50.00		94	23-139	22	20	D
Phenanthrene	46.1	10	ug/L	50.00		92	68-128	8	20	
Phenol	17.1	10	ug/L	50.00		34	12-58	5	20	
Pyrene	43.5	10	ug/L	50.00		87	62-139	8	20	
Surrogate: 2,4,6-Tribromophenol	*96.8*		*ug/L*	*100.0*		*97*	*49-109*			
Surrogate: 2-Fluorobiphenyl	*43.1*		*ug/L*	*50.00*		*86*	*55-96*			
Surrogate: 2-Fluorophenol	*48.1*		*ug/L*	*100.0*		*48*	*27-74*			
Surrogate: Nitrobenzene-d5	*40.2*		*ug/L*	*50.00*		*80*	*53-99*			
Surrogate: Phenol-d5	*29.7*		*ug/L*	*100.0*		*30*	*11-52*			
Surrogate: Terphenyl-d14	*48.0*		*ug/L*	*50.00*		*96*	*42-133*			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0379 - 3546										
Blank (P5A0379-BLK1)				Prepared: 01/28/15 Analyzed: 02/02/15						
1,2,4-Trichlorobenzene	BRL	0.33	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.33	mg/kg wet							
1-Methylnaphthalene	BRL	0.33	mg/kg wet							
2,4,6-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dimethylphenol	BRL	0.33	mg/kg wet							
2,4-Dinitrophenol	BRL	0.33	mg/kg wet							
2,4-Dinitrotoluene	BRL	0.33	mg/kg wet							
2,6-Dinitrotoluene	BRL	0.33	mg/kg wet							
2-Chloronaphthalene	BRL	0.33	mg/kg wet							
2-Chlorophenol	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylphenol	BRL	0.33	mg/kg wet							
2-Nitrophenol	BRL	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	BRL	0.33	mg/kg wet							
3/4-Methylphenol	BRL	0.33	mg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	0.33	mg/kg wet							
4-Bromophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Chloro-3-methylphenol	BRL	0.33	mg/kg wet							
4-Chloroaniline	BRL	0.33	mg/kg wet							
4-Chlorophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Nitrophenol	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Azobenzene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Benzoic Acid	BRL	0.33	mg/kg wet							
Benzyl alcohol	BRL	0.33	mg/kg wet							
bis(2-Chloroethoxy)methane	BRL	0.33	mg/kg wet							
Bis(2-Chloroethyl)ether	BRL	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	0.33	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	BRL	0.33	mg/kg wet							
Butyl benzyl phthalate	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							
Dibenzofuran	BRL	0.33	mg/kg wet							
Diethyl phthalate	BRL	0.33	mg/kg wet							
Dimethyl phthalate	BRL	0.33	mg/kg wet							
Di-n-butyl phthalate	BRL	0.33	mg/kg wet							

Mid-Atlantic Associates, Inc. - Raleigh
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Raleigh, NC 27610

Project: R2478

Prism Work Order: 5010401
Time Submitted: 1/23/2015 10:50:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0379 - 3546										
Blank (P5A0379-BLK1)				Prepared: 01/28/15 Analyzed: 02/02/15						
Di-n-octyl phthalate	BRL	0.33	mg/kg wet							
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Hexachlorobenzene	BRL	0.33	mg/kg wet							
Hexachlorobutadiene	BRL	0.33	mg/kg wet							
Hexachlorocyclopentadiene	BRL	0.33	mg/kg wet							
Hexachloroethane	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Isophorone	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Nitrobenzene	BRL	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	BRL	0.33	mg/kg wet							
N-Nitrosodiphenylamine	BRL	0.33	mg/kg wet							
Pentachlorophenol	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Phenol	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*3.00*		*mg/kg wet*	*3.332*		*90*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.46*		*mg/kg wet*	*1.666*		*88*	*44-115*			
Surrogate: 2-Fluorophenol	*3.02*		*mg/kg wet*	*3.332*		*91*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.34*		*mg/kg wet*	*1.666*		*80*	*37-122*			
Surrogate: Phenol-d5	*2.74*		*mg/kg wet*	*3.332*		*82*	*34-121*			
Surrogate: Terphenyl-d14	*1.79*		*mg/kg wet*	*1.666*		*107*	*54-127*			
LCS (P5A0379-BS1)				Prepared: 01/28/15 Analyzed: 02/02/15						
1,2,4-Trichlorobenzene	1.43	0.33	mg/kg wet	1.666		86	34-118			
1,2-Dichlorobenzene	1.29	0.33	mg/kg wet	1.666		78	33-117			
1,3-Dichlorobenzene	1.26	0.33	mg/kg wet	1.666		76	30-115			
1,4-Dichlorobenzene	1.24	0.33	mg/kg wet	1.666		75	31-115			
1-Methylnaphthalene	1.41	0.33	mg/kg wet	1.666		84	40-119			
2,4,6-Trichlorophenol	1.56	0.33	mg/kg wet	1.666		94	39-126			
2,4-Dichlorophenol	1.49	0.33	mg/kg wet	1.666		90	40-122			
2,4-Dimethylphenol	1.47	0.33	mg/kg wet	1.666		88	30-127			
2,4-Dinitrophenol	1.63	0.33	mg/kg wet	1.666		98	27-129			
2,4-Dinitrotoluene	1.67	0.33	mg/kg wet	1.666		100	48-126			
2,6-Dinitrotoluene	1.60	0.33	mg/kg wet	1.666		96	46-124			
2-Chloronaphthalene	1.98	0.33	mg/kg wet	1.666		119	41-114			LH
2-Chlorophenol	1.39	0.33	mg/kg wet	1.666		83	34-121			
2-Methylnaphthalene	1.44	0.33	mg/kg wet	1.666		87	38-122			
2-Methylphenol	1.39	0.33	mg/kg wet	1.666		84	32-122			
2-Nitrophenol	1.40	0.33	mg/kg wet	1.666		84	36-123			
3,3'-Dichlorobenzidine	1.37	0.33	mg/kg wet	1.666		82	22-121			
3/4-Methylphenol	1.51	0.33	mg/kg wet	1.666		91	34-119			
4,6-Dinitro-2-methylphenol	1.73	0.33	mg/kg wet	1.666		104	29-132			
4-Bromophenyl phenyl ether	1.54	0.33	mg/kg wet	1.666		93	46-124			
4-Chloro-3-methylphenol	1.48	0.33	mg/kg wet	1.666		89	45-122			
4-Chloroaniline	1.37	0.33	mg/kg wet	1.666		82	17-106			

Mid-Atlantic Associates, Inc. - Raleigh
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Project: R2478

Prism Work Order: 5010401
Time Submitted: 1/23/2015 10:50:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0379 - 3546										
LCS (P5A0379-BS1)				Prepared: 01/28/15 Analyzed: 02/02/15						
4-Chlorophenyl phenyl ether	1.55	0.33	mg/kg wet	1.666		93	45-121			
4-Nitrophenol	1.69	0.33	mg/kg wet	1.666		102	30-132			
Acenaphthene	1.53	0.33	mg/kg wet	1.666		92	40-123			
Acenaphthylene	1.53	0.33	mg/kg wet	1.666		92	32-132			
Anthracene	1.59	0.33	mg/kg wet	1.666		96	47-123			
Azobenzene	1.74	0.33	mg/kg wet	1.666		104	39-125			
Benzo(a)anthracene	1.67	0.33	mg/kg wet	1.666		100	49-126			
Benzo(a)pyrene	1.73	0.33	mg/kg wet	1.666		104	45-129			
Benzo(b)fluoranthene	1.68	0.33	mg/kg wet	1.666		101	45-132			
Benzo(g,h,i)perylene	1.65	0.33	mg/kg wet	1.666		99	43-134			
Benzo(k)fluoranthene	1.73	0.33	mg/kg wet	1.666		104	47-132			
Benzoic Acid	1.26	0.33	mg/kg wet	1.666		75	10-83			
Benzyl alcohol	1.26	0.33	mg/kg wet	1.666		76	29-122			
bis(2-Chloroethoxy)methane	1.41	0.33	mg/kg wet	1.666		85	36-121			
Bis(2-Chloroethyl)ether	1.28	0.33	mg/kg wet	1.666		77	31-120			
Bis(2-chloroisopropyl)ether	1.27	0.33	mg/kg wet	1.666		76	33-131			
Bis(2-Ethylhexyl)phthalate	1.62	0.33	mg/kg wet	1.666		97	51-133			
Butyl benzyl phthalate	1.59	0.33	mg/kg wet	1.666		95	48-132			
Chrysene	1.82	0.33	mg/kg wet	1.666		109	50-124			
Dibenzo(a,h)anthracene	1.71	0.33	mg/kg wet	1.666		102	45-134			
Dibenzofuran	1.40	0.33	mg/kg wet	1.666		84	44-120			
Diethyl phthalate	1.54	0.33	mg/kg wet	1.666		92	50-124			
Dimethyl phthalate	1.51	0.33	mg/kg wet	1.666		91	48-124			
Di-n-butyl phthalate	1.59	0.33	mg/kg wet	1.666		96	51-128			
Di-n-octyl phthalate	1.69	0.33	mg/kg wet	1.666		102	45-140			
Fluoranthene	1.64	0.33	mg/kg wet	1.666		98	50-127			
Fluorene	1.56	0.33	mg/kg wet	1.666		94	43-125			
Hexachlorobenzene	1.67	0.33	mg/kg wet	1.666		100	45-122			
Hexachlorobutadiene	1.43	0.33	mg/kg wet	1.666		86	32-123			
Hexachlorocyclopentadiene	1.51	0.33	mg/kg wet	1.666		91	32-117			
Hexachloroethane	1.26	0.33	mg/kg wet	1.666		76	28-117			
Indeno(1,2,3-cd)pyrene	1.72	0.33	mg/kg wet	1.666		104	45-133			
Isophorone	1.53	0.33	mg/kg wet	1.666		92	30-122			
Naphthalene	1.37	0.33	mg/kg wet	1.666		82	35-123			
Nitrobenzene	1.39	0.33	mg/kg wet	1.666		84	34-122			
N-Nitroso-di-n-propylamine	1.40	0.33	mg/kg wet	1.666		84	36-120			
N-Nitrosodiphenylamine	1.62	0.33	mg/kg wet	1.666		97	38-127			
Pentachlorophenol	1.69	0.33	mg/kg wet	1.666		101	25-133			
Phenanthrene	1.59	0.33	mg/kg wet	1.666		96	50-121			
Phenol	1.40	0.33	mg/kg wet	1.666		84	34-121			
Pyrene	1.67	0.33	mg/kg wet	1.666		101	47-127			
Surrogate: 2,4,6-Tribromophenol	*3.25*		*mg/kg wet*	*3.331*		*97*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.60*		*mg/kg wet*	*1.666*		*96*	*44-115*			
Surrogate: 2-Fluorophenol	*3.01*		*mg/kg wet*	*3.331*		*90*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.44*		*mg/kg wet*	*1.666*		*87*	*37-122*			
Surrogate: Phenol-d5	*2.81*		*mg/kg wet*	*3.331*		*84*	*34-121*			

Mid-Atlantic Associates, Inc. - Raleigh
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Project: R2478

Prism Work Order: 5010401
Time Submitted: 1/23/2015 10:50:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0379 - 3546										
LCS (P5A0379-BS1)				Prepared: 01/28/15 Analyzed: 02/02/15						
Surrogate: Terphenyl-d14	*1.85*		*mg/kg wet*	*1.666*		*111*	*54-127*			
LCS Dup (P5A0379-BSD1)				Prepared: 01/28/15 Analyzed: 02/02/15						
1,2,4-Trichlorobenzene	1.47	0.33	mg/kg wet	1.665		88	34-118	3	20	
1,2-Dichlorobenzene	1.32	0.33	mg/kg wet	1.665		79	33-117	2	20	
1,3-Dichlorobenzene	1.28	0.33	mg/kg wet	1.665		77	30-115	1	20	
1,4-Dichlorobenzene	1.29	0.33	mg/kg wet	1.665		77	31-115	3	20	
1-Methylnaphthalene	1.46	0.33	mg/kg wet	1.665		88	40-119	4	20	
2,4,6-Trichlorophenol	1.60	0.33	mg/kg wet	1.665		96	39-126	3	20	
2,4-Dichlorophenol	1.53	0.33	mg/kg wet	1.665		92	40-122	3	20	
2,4-Dimethylphenol	1.51	0.33	mg/kg wet	1.665		91	30-127	3	20	
2,4-Dinitrophenol	1.62	0.33	mg/kg wet	1.665		97	27-129	0.9	20	
2,4-Dinitrotoluene	1.71	0.33	mg/kg wet	1.665		102	48-126	2	20	
2,6-Dinitrotoluene	1.60	0.33	mg/kg wet	1.665		96	46-124	0.4	20	
2-Chloronaphthalene	2.01	0.33	mg/kg wet	1.665		121	41-114	1	20	LH
2-Chlorophenol	1.40	0.33	mg/kg wet	1.665		84	34-121	1	20	
2-Methylnaphthalene	1.47	0.33	mg/kg wet	1.665		88	38-122	1	20	
2-Methylphenol	1.43	0.33	mg/kg wet	1.665		86	32-122	3	20	
2-Nitrophenol	1.42	0.33	mg/kg wet	1.665		85	36-123	1	20	
3,3'-Dichlorobenzidine	1.32	0.33	mg/kg wet	1.665		79	22-121	4	20	
3/4-Methylphenol	1.51	0.33	mg/kg wet	1.665		91	34-119	0.1	20	
4,6-Dinitro-2-methylphenol	1.79	0.33	mg/kg wet	1.665		107	29-132	3	20	
4-Bromophenyl phenyl ether	1.56	0.33	mg/kg wet	1.665		93	46-124	0.9	20	
4-Chloro-3-methylphenol	1.57	0.33	mg/kg wet	1.665		95	45-122	6	20	
4-Chloroaniline	1.29	0.33	mg/kg wet	1.665		77	17-106	6	20	
4-Chlorophenyl phenyl ether	1.57	0.33	mg/kg wet	1.665		94	45-121	2	20	
4-Nitrophenol	1.75	0.33	mg/kg wet	1.665		105	30-132	3	20	
Acenaphthene	1.52	0.33	mg/kg wet	1.665		91	40-123	1	20	
Acenaphthylene	1.54	0.33	mg/kg wet	1.665		93	32-132	1	20	
Anthracene	1.65	0.33	mg/kg wet	1.665		99	47-123	4	20	
Azobenzene	1.73	0.33	mg/kg wet	1.665		104	39-125	0.1	20	
Benzo(a)anthracene	1.73	0.33	mg/kg wet	1.665		104	49-126	3	20	
Benzo(a)pyrene	1.76	0.33	mg/kg wet	1.665		106	45-129	2	20	
Benzo(b)fluoranthene	1.63	0.33	mg/kg wet	1.665		98	45-132	3	20	
Benzo(g,h,i)perylene	1.70	0.33	mg/kg wet	1.665		102	43-134	3	20	
Benzo(k)fluoranthene	1.88	0.33	mg/kg wet	1.665		113	47-132	8	20	
Benzoic Acid	1.22	0.33	mg/kg wet	1.665		73	10-83	3	20	
Benzyl alcohol	1.26	0.33	mg/kg wet	1.665		76	29-122	0.2	20	
bis(2-Chloroethoxy)methane	1.43	0.33	mg/kg wet	1.665		86	36-121	2	20	
Bis(2-Chloroethyl)ether	1.34	0.33	mg/kg wet	1.665		80	31-120	4	20	
Bis(2-chloroisopropyl)ether	1.29	0.33	mg/kg wet	1.665		78	33-131	2	20	
Bis(2-Ethylhexyl)phthalate	1.67	0.33	mg/kg wet	1.665		100	51-133	3	20	
Butyl benzyl phthalate	1.64	0.33	mg/kg wet	1.665		98	48-132	3	20	
Chrysene	1.74	0.33	mg/kg wet	1.665		105	50-124	4	20	
Dibenzo(a,h)anthracene	1.72	0.33	mg/kg wet	1.665		103	45-134	0.6	20	
Dibenzofuran	1.43	0.33	mg/kg wet	1.665		86	44-120	2	20	
Diethyl phthalate	1.56	0.33	mg/kg wet	1.665		94	50-124	2	20	

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Project: R2478

Prism Work Order: 5010401
Time Submitted: 1/23/2015 10:50:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0379 - 3546										
LCS Dup (P5A0379-BSD1)				Prepared: 01/28/15 Analyzed: 02/02/15						
Dimethyl phthalate	1.53	0.33	mg/kg wet	1.665		92	48-124	1	20	
Di-n-butyl phthalate	1.65	0.33	mg/kg wet	1.665		99	51-128	4	20	
Di-n-octyl phthalate	1.72	0.33	mg/kg wet	1.665		103	45-140	2	20	
Fluoranthene	1.69	0.33	mg/kg wet	1.665		102	50-127	3	20	
Fluorene	1.58	0.33	mg/kg wet	1.665		95	43-125	1	20	
Hexachlorobenzene	1.72	0.33	mg/kg wet	1.665		103	45-122	3	20	
Hexachlorobutadiene	1.45	0.33	mg/kg wet	1.665		87	32-123	2	20	
Hexachlorocyclopentadiene	1.54	0.33	mg/kg wet	1.665		92	32-117	2	20	
Hexachloroethane	1.29	0.33	mg/kg wet	1.665		78	28-117	3	20	
Indeno(1,2,3-cd)pyrene	1.76	0.33	mg/kg wet	1.665		106	45-133	2	20	
Isophorone	1.55	0.33	mg/kg wet	1.665		93	30-122	1	20	
Naphthalene	1.42	0.33	mg/kg wet	1.665		85	35-123	4	20	
Nitrobenzene	1.43	0.33	mg/kg wet	1.665		86	34-122	2	20	
N-Nitroso-di-n-propylamine	1.42	0.33	mg/kg wet	1.665		85	36-120	2	20	
N-Nitrosodiphenylamine	1.64	0.33	mg/kg wet	1.665		99	38-127	2	20	
Pentachlorophenol	1.72	0.33	mg/kg wet	1.665		103	25-133	2	20	
Phenanthrene	1.65	0.33	mg/kg wet	1.665		99	50-121	3	20	
Phenol	1.39	0.33	mg/kg wet	1.665		84	34-121	0.8	20	
Pyrene	1.73	0.33	mg/kg wet	1.665		104	47-127	3	20	
Surrogate: 2,4,6-Tribromophenol	*3.38*		*mg/kg wet*	*3.330*		*102*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.65*		*mg/kg wet*	*1.665*		*99*	*44-115*			
Surrogate: 2-Fluorophenol	*3.10*		*mg/kg wet*	*3.330*		*93*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.49*		*mg/kg wet*	*1.665*		*90*	*37-122*			
Surrogate: Phenol-d5	*2.93*		*mg/kg wet*	*3.330*		*88*	*34-121*			
Surrogate: Terphenyl-d14	*1.92*		*mg/kg wet*	*1.665*		*115*	*54-127*			
Matrix Spike (P5A0379-MS1)		**Source: 5010401-01**		Prepared: 01/28/15 Analyzed: 02/02/15						
1,2,4-Trichlorobenzene	1.72	0.39	mg/kg dry	1.962	BRL	88	34-118			
1,2-Dichlorobenzene	1.55	0.39	mg/kg dry	1.962	BRL	79	33-117			
1,3-Dichlorobenzene	1.47	0.39	mg/kg dry	1.962	BRL	75	30-115			
1,4-Dichlorobenzene	1.44	0.39	mg/kg dry	1.962	BRL	73	31-115			
1-Methylnaphthalene	1.67	0.39	mg/kg dry	1.962	BRL	85	40-119			
2,4,6-Trichlorophenol	1.93	0.39	mg/kg dry	1.962	BRL	98	39-126			
2,4-Dichlorophenol	1.78	0.39	mg/kg dry	1.962	BRL	91	40-122			
2,4-Dimethylphenol	1.80	0.39	mg/kg dry	1.962	BRL	92	30-127			
2,4-Dinitrophenol	1.70	0.39	mg/kg dry	1.962	BRL	86	27-129			
2,4-Dinitrotoluene	1.91	0.39	mg/kg dry	1.962	BRL	97	48-126			
2,6-Dinitrotoluene	1.89	0.39	mg/kg dry	1.962	BRL	96	46-124			
2-Chloronaphthalene	2.32	0.39	mg/kg dry	1.962	BRL	118	41-114			M
2-Chlorophenol	1.64	0.39	mg/kg dry	1.962	BRL	84	34-121			
2-Methylnaphthalene	1.71	0.39	mg/kg dry	1.962	BRL	87	38-122			
2-Methylphenol	1.65	0.39	mg/kg dry	1.962	BRL	84	32-122			
2-Nitrophenol	1.71	0.39	mg/kg dry	1.962	BRL	87	36-123			
3,3'-Dichlorobenzidine	1.72	0.39	mg/kg dry	1.962	BRL	88	22-121			
3/4-Methylphenol	1.76	0.39	mg/kg dry	1.962	BRL	90	34-119			
4,6-Dinitro-2-methylphenol	1.84	0.39	mg/kg dry	1.962	BRL	94	29-132			
4-Bromophenyl phenyl ether	1.87	0.39	mg/kg dry	1.962	BRL	96	46-124			

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Prism Work Order: 5010401
Time Submitted: 1/23/2015 10:50:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0379 - 3546										
Matrix Spike (P5A0379-MS1)	**Source: 5010401-01**			Prepared: 01/28/15 Analyzed: 02/02/15						
4-Chloro-3-methylphenol	1.84	0.39	mg/kg dry	1.962	BRL	94	45-122			
4-Chloroaniline	1.49	0.39	mg/kg dry	1.962	BRL	76	17-106			
4-Chlorophenyl phenyl ether	1.80	0.39	mg/kg dry	1.962	BRL	92	45-121			
4-Nitrophenol	2.07	0.39	mg/kg dry	1.962	BRL	105	30-132			
Acenaphthene	1.80	0.39	mg/kg dry	1.962	BRL	91	40-123			
Acenaphthylene	1.82	0.39	mg/kg dry	1.962	BRL	93	32-132			
Anthracene	1.91	0.39	mg/kg dry	1.962	BRL	97	47-123			
Azobenzene	2.06	0.39	mg/kg dry	1.962	BRL	105	39-125			
Benzo(a)anthracene	1.97	0.39	mg/kg dry	1.962	BRL	101	49-126			
Benzo(a)pyrene	1.99	0.39	mg/kg dry	1.962	BRL	101	45-129			
Benzo(b)fluoranthene	2.03	0.39	mg/kg dry	1.962	BRL	103	45-132			
Benzo(g,h,i)perylene	1.99	0.39	mg/kg dry	1.962	BRL	101	43-134			
Benzo(k)fluoranthene	1.86	0.39	mg/kg dry	1.962	BRL	95	47-132			
Benzoic Acid	1.61	0.39	mg/kg dry	1.962	BRL	82	10-83			
Benzyl alcohol	1.44	0.39	mg/kg dry	1.962	BRL	74	29-122			
bis(2-Chloroethoxy)methane	1.64	0.39	mg/kg dry	1.962	BRL	84	36-121			
Bis(2-Chloroethyl)ether	1.39	0.39	mg/kg dry	1.962	BRL	71	31-120			
Bis(2-chloroisopropyl)ether	1.39	0.39	mg/kg dry	1.962	BRL	71	33-131			
Bis(2-Ethylhexyl)phthalate	2.04	0.39	mg/kg dry	1.962	BRL	104	51-133			
Butyl benzyl phthalate	1.93	0.39	mg/kg dry	1.962	BRL	98	48-132			
Chrysene	1.98	0.39	mg/kg dry	1.962	BRL	101	50-124			
Dibenzo(a,h)anthracene	1.98	0.39	mg/kg dry	1.962	BRL	101	45-134			
Dibenzofuran	1.66	0.39	mg/kg dry	1.962	BRL	84	44-120			
Diethyl phthalate	1.79	0.39	mg/kg dry	1.962	BRL	91	50-124			
Dimethyl phthalate	1.76	0.39	mg/kg dry	1.962	BRL	90	48-124			
Di-n-butyl phthalate	1.86	0.39	mg/kg dry	1.962	BRL	95	51-128			
Di-n-octyl phthalate	1.97	0.39	mg/kg dry	1.962	BRL	100	45-140			
Fluoranthene	1.91	0.39	mg/kg dry	1.962	BRL	97	50-127			
Fluorene	1.83	0.39	mg/kg dry	1.962	BRL	93	43-125			
Hexachlorobenzene	1.95	0.39	mg/kg dry	1.962	BRL	99	45-122			
Hexachlorobutadiene	1.69	0.39	mg/kg dry	1.962	BRL	86	32-123			
Hexachlorocyclopentadiene	1.08	0.39	mg/kg dry	1.962	BRL	55	32-117			
Hexachloroethane	2.10	0.39	mg/kg dry	1.962	BRL	107	28-117			
Indeno(1,2,3-cd)pyrene	2.07	0.39	mg/kg dry	1.962	BRL	105	45-133			
Isophorone	1.86	0.39	mg/kg dry	1.962	BRL	95	30-122			
Naphthalene	1.68	0.39	mg/kg dry	1.962	BRL	86	35-123			
Nitrobenzene	1.77	0.39	mg/kg dry	1.962	BRL	90	34-122			
N-Nitroso-di-n-propylamine	1.84	0.39	mg/kg dry	1.962	BRL	94	36-120			
N-Nitrosodiphenylamine	1.91	0.39	mg/kg dry	1.962	BRL	97	38-127			
Pentachlorophenol	2.20	0.39	mg/kg dry	1.962	BRL	112	25-133			
Phenanthrene	1.89	0.39	mg/kg dry	1.962	BRL	96	50-121			
Phenol	1.64	0.39	mg/kg dry	1.962	BRL	84	34-121			
Pyrene	2.01	0.39	mg/kg dry	1.962	BRL	102	47-127			
Surrogate: 2,4,6-Tribromophenol	*4.11*		*mg/kg dry*	*3.924*		*105*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.93*		*mg/kg dry*	*1.962*		*98*	*44-115*			
Surrogate: 2-Fluorophenol	*3.64*		*mg/kg dry*	*3.924*		*93*	*35-115*			

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Prism Work Order: 5010401
Time Submitted: 1/23/2015 10:50:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0379 - 3546										
Matrix Spike (P5A0379-MS1)	**Source: 5010401-01**			Prepared: 01/28/15		Analyzed: 02/02/15				
Surrogate: Nitrobenzene-d5	*1.99*		*mg/kg dry*	*1.962*		*101*	*37-122*			
Surrogate: Phenol-d5	*3.38*		*mg/kg dry*	*3.924*		*86*	*34-121*			
Surrogate: Terphenyl-d14	*2.25*		*mg/kg dry*	*1.962*		*115*	*54-127*			
Matrix Spike Dup (P5A0379-MSD1)	**Source: 5010401-01**			Prepared: 01/28/15		Analyzed: 02/02/15				
1,2,4-Trichlorobenzene	1.67	0.39	mg/kg dry	1.961	BRL	85	34-118	3	20	
1,2-Dichlorobenzene	1.52	0.39	mg/kg dry	1.961	BRL	78	33-117	2	20	
1,3-Dichlorobenzene	1.42	0.39	mg/kg dry	1.961	BRL	73	30-115	3	20	
1,4-Dichlorobenzene	1.41	0.39	mg/kg dry	1.961	BRL	72	31-115	2	20	
1-Methylnaphthalene	1.63	0.39	mg/kg dry	1.961	BRL	83	40-119	3	20	
2,4,6-Trichlorophenol	1.90	0.39	mg/kg dry	1.961	BRL	97	39-126	1	20	
2,4-Dichlorophenol	1.77	0.39	mg/kg dry	1.961	BRL	90	40-122	0.6	20	
2,4-Dimethylphenol	1.75	0.39	mg/kg dry	1.961	BRL	89	30-127	3	20	
2,4-Dinitrophenol	1.53	0.39	mg/kg dry	1.961	BRL	78	27-129	10	20	
2,4-Dinitrotoluene	1.90	0.39	mg/kg dry	1.961	BRL	97	48-126	0.2	20	
2,6-Dinitrotoluene	1.86	0.39	mg/kg dry	1.961	BRL	95	46-124	2	20	
2-Chloronaphthalene	2.25	0.39	mg/kg dry	1.961	BRL	115	41-114	3	20	M
2-Chlorophenol	1.56	0.39	mg/kg dry	1.961	BRL	79	34-121	5	20	
2-Methylnaphthalene	1.67	0.39	mg/kg dry	1.961	BRL	85	38-122	2	20	
2-Methylphenol	1.59	0.39	mg/kg dry	1.961	BRL	81	32-122	3	20	
2-Nitrophenol	1.62	0.39	mg/kg dry	1.961	BRL	83	36-123	5	20	
3,3'-Dichlorobenzidine	1.79	0.39	mg/kg dry	1.961	BRL	91	22-121	4	20	
3/4-Methylphenol	1.73	0.39	mg/kg dry	1.961	BRL	88	34-119	2	20	
4,6-Dinitro-2-methylphenol	1.66	0.39	mg/kg dry	1.961	BRL	85	29-132	10	20	
4-Bromophenyl phenyl ether	1.84	0.39	mg/kg dry	1.961	BRL	94	46-124	2	20	
4-Chloro-3-methylphenol	1.82	0.39	mg/kg dry	1.961	BRL	93	45-122	1	20	
4-Chloroaniline	1.51	0.39	mg/kg dry	1.961	BRL	77	17-106	1	20	
4-Chlorophenyl phenyl ether	1.77	0.39	mg/kg dry	1.961	BRL	90	45-121	1	20	
4-Nitrophenol	2.09	0.39	mg/kg dry	1.961	BRL	107	30-132	1	20	
Acenaphthene	1.77	0.39	mg/kg dry	1.961	BRL	90	40-123	1	20	
Acenaphthylene	1.79	0.39	mg/kg dry	1.961	BRL	91	32-132	1	20	
Anthracene	1.92	0.39	mg/kg dry	1.961	BRL	98	47-123	0.9	20	
Azobenzene	2.03	0.39	mg/kg dry	1.961	BRL	104	39-125	1	20	
Benzo(a)anthracene	2.00	0.39	mg/kg dry	1.961	BRL	102	49-126	1	20	
Benzo(a)pyrene	2.00	0.39	mg/kg dry	1.961	BRL	102	45-129	0.5	20	
Benzo(b)fluoranthene	1.82	0.39	mg/kg dry	1.961	BRL	93	45-132	11	20	
Benzo(g,h,i)perylene	1.98	0.39	mg/kg dry	1.961	BRL	101	43-134	0.5	20	
Benzo(k)fluoranthene	2.06	0.39	mg/kg dry	1.961	BRL	105	47-132	10	20	
Benzoic Acid	1.39	0.39	mg/kg dry	1.961	BRL	71	10-83	15	20	
Benzyl alcohol	1.42	0.39	mg/kg dry	1.961	BRL	72	29-122	2	20	
bis(2-Chloroethoxy)methane	1.56	0.39	mg/kg dry	1.961	BRL	80	36-121	5	20	
Bis(2-Chloroethyl)ether	1.38	0.39	mg/kg dry	1.961	BRL	70	31-120	0.8	20	
Bis(2-chloroisopropyl)ether	1.36	0.39	mg/kg dry	1.961	BRL	69	33-131	2	20	
Bis(2-Ethylhexyl)phthalate	2.03	0.39	mg/kg dry	1.961	BRL	104	51-133	0.5	20	
Butyl benzyl phthalate	1.91	0.39	mg/kg dry	1.961	BRL	98	48-132	0.7	20	
Chrysene	1.99	0.39	mg/kg dry	1.961	BRL	102	50-124	0.6	20	
Dibenzo(a,h)anthracene	2.00	0.39	mg/kg dry	1.961	BRL	102	45-134	0.9	20	

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: R2478

Prism Work Order: 5010401
Time Submitted: 1/23/2015 10:50:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0379 - 3546										
Matrix Spike Dup (P5A0379-MSD1)	**Source: 5010401-01**			Prepared: 01/28/15 Analyzed: 02/02/15						
Dibenzofuran	1.62	0.39	mg/kg dry	1.961	BRL	83	44-120	2	20	
Diethyl phthalate	1.79	0.39	mg/kg dry	1.961	BRL	91	50-124	0.08	20	
Dimethyl phthalate	1.73	0.39	mg/kg dry	1.961	BRL	88	48-124	1	20	
Di-n-butyl phthalate	1.87	0.39	mg/kg dry	1.961	BRL	95	51-128	0.6	20	
Di-n-octyl phthalate	1.96	0.39	mg/kg dry	1.961	BRL	100	45-140	0.6	20	
Fluoranthene	1.94	0.39	mg/kg dry	1.961	BRL	99	50-127	1	20	
Fluorene	1.83	0.39	mg/kg dry	1.961	BRL	93	43-125	0.07	20	
Hexachlorobenzene	2.02	0.39	mg/kg dry	1.961	BRL	103	45-122	4	20	
Hexachlorobutadiene	1.64	0.39	mg/kg dry	1.961	BRL	84	32-123	3	20	
Hexachlorocyclopentadiene	0.990	0.39	mg/kg dry	1.961	BRL	50	32-117	9	20	
Hexachloroethane	1.86	0.39	mg/kg dry	1.961	BRL	95	28-117	12	20	
Indeno(1,2,3-cd)pyrene	2.06	0.39	mg/kg dry	1.961	BRL	105	45-133	0.5	20	
Isophorone	1.75	0.39	mg/kg dry	1.961	BRL	89	30-122	6	20	
Naphthalene	1.60	0.39	mg/kg dry	1.961	BRL	82	35-123	5	20	
Nitrobenzene	1.63	0.39	mg/kg dry	1.961	BRL	83	34-122	8	20	
N-Nitroso-di-n-propylamine	1.71	0.39	mg/kg dry	1.961	BRL	87	36-120	7	20	
N-Nitrosodiphenylamine	1.93	0.39	mg/kg dry	1.961	BRL	98	38-127	0.8	20	
Pentachlorophenol	2.19	0.39	mg/kg dry	1.961	BRL	112	25-133	0.6	20	
Phenanthrene	1.91	0.39	mg/kg dry	1.961	BRL	97	50-121	1	20	
Phenol	1.58	0.39	mg/kg dry	1.961	BRL	80	34-121	4	20	
Pyrene	2.03	0.39	mg/kg dry	1.961	BRL	103	47-127	1	20	
Surrogate: 2,4,6-Tribromophenol	*4.05*		*mg/kg dry*	*3.922*		*103*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.87*		*mg/kg dry*	*1.961*		*95*	*44-115*			
Surrogate: 2-Fluorophenol	*3.46*		*mg/kg dry*	*3.922*		*88*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.81*		*mg/kg dry*	*1.961*		*92*	*37-122*			
Surrogate: Phenol-d5	*3.20*		*mg/kg dry*	*3.922*		*82*	*34-121*			
Surrogate: Terphenyl-d14	*2.23*		*mg/kg dry*	*1.961*		*114*	*54-127*			

Mid-Atlantic Associates, Inc. - Raleigh
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Raleigh, NC 27610

Project: R2478

Prism Work Order: 5010401
Time Submitted: 1/23/2015 10:50:00AM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5A0380 - Solids, Dry Weight										
Blank (P5A0380-BLK1)				Prepared & Analyzed: 01/27/15						
% Solids	99.9	0.100	% by Weight							
Duplicate (P5A0380-DUP4)		**Source: 5010401-01**		Prepared & Analyzed: 01/27/15						
% Solids	84.8	0.100	% by Weight		84.9			0.1	20	
Batch P5A0428 - Solids, Dry Weight										
Blank (P5A0428-BLK1)				Prepared & Analyzed: 01/28/15						
% Solids	100	0.100	% by Weight							
Duplicate (P5A0428-DUP1)		**Source: 5010401-06**		Prepared & Analyzed: 01/28/15						
% Solids	90.5	0.100	% by Weight		90.4			0.1	20	

Sample Extraction Data

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
5010401-01	P5A0380	30 g	30 g	01/27/15 16:15
5010401-02	P5A0380	30 g	30 g	01/27/15 16:15
5010401-03	P5A0380	30 g	30 g	01/27/15 16:15
5010401-04	P5A0380	30 g	30 g	01/27/15 16:15
5010401-05	P5A0380	30 g	30 g	01/27/15 16:15
5010401-06	P5A0428	30 g	30 g	01/29/15 15:00

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date/Time
5010401-07	P5A0299	1000 mL	1 mL	01/24/15 7:30

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5010401-01	P5A0379	30.05 g	1 mL	01/28/15 8:31
5010401-02	P5A0379	30.02 g	1 mL	01/28/15 8:31
5010401-03	P5A0379	30.02 g	1 mL	01/28/15 8:31
5010401-04	P5A0379	30.02 g	1 mL	01/28/15 8:31
5010401-05	P5A0379	30.01 g	1 mL	01/28/15 8:31

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
5010401-07	P5A0355	10 mL	10 mL	01/26/15 10:07
5010401-08	P5A0355	10 mL	10 mL	01/26/15 10:07
5010401-09	P5A0355	10 mL	10 mL	01/26/15 10:07

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5010401-01	P5A0345	7.01 g	5 mL	01/26/15 13:04
5010401-02	P5A0345	6.12 g	5 mL	01/26/15 13:04
5010401-03	P5A0345	5.7 g	5 mL	01/26/15 13:04
5010401-04	P5A0345	6.28 g	5 mL	01/26/15 13:04
5010401-05	P5A0375	7.7 g	5 mL	01/27/15 14:26
5010401-06	P5A0375	6.36 g	5 mL	01/27/15 14:26

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5010401-03	P5A0395	6.86 g	5 mL	01/28/15 9:41
5010401-03	P5A0395	6.86 g	5 mL	01/28/15 9:41
5010401-04	P5A0370	7.54 g	5 mL	01/27/15 12:21
5010401-04	P5A0370	7.54 g	5 mL	01/27/15 12:21

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions
449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: ____

Client Company Name: MAA
Report To/Contact Name: Eric Aufderhaar
Reporting Address: 409 Rogers View Ct. Raleigh, NC
Phone: 919-250-9918 Fax (Yes) (No):
Email Address: eaufderhaar@maaonline.com
EDD Type: PDF X Excel X Other
Site Location Name: Mik-Burn
Site Location Physical Address: 244 E. Main St. Havelock, NC

Project Name: 02418.00 TU4065
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Same
Address:
Purchase Order No./Billing Reference
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	X		
Received ON WET ICE?	X		
PROPER PRESERVATIVES indicated?	X		
Received WITHIN HOLDING TIMES?	X		
CUSTODY SEALS INTACT?			X
VOLATILES rec'd W/OUT HEADSPACE?	X		
PROPER CONTAINERS used?	X		

TEMP: Therm ID: IR-10 Observed: 3.1 °C / Corr: 1.7 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC___ DoD___ FL___ NC___ SC___ OTHER___ N/A___
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES___ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260	8270				REMARKS	PRISM LAB ID NO.
SB-1	1/20	13:00	Soil	VOA/G/A	7/1/1	40ml/8oz/2oz	HCL / Sodium Bisulfate / Methanol	X	X				STRONG ODORS IN ALL SOIL SAMPLES	01
SB-2		14:30						X	X					02
SB-3		10:45						X	X					03
SB-4		11:15						X	X					04
SB-5		13:40						X	X					05
Dup-1		14:30						X						06
SB-2	1/21	11:00	Water	Amber	2	1L	None	X	X					07
Dup-1					1	1L		X						08

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature [signature] Sampled By (Print Name) Wes Haylock Affiliation MAA

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	1/22/15	17:00
[signature]	[signature]	1/23/15	1030
[signature]	Received For Prism Laboratories By: Hoganwith	1/23/15	1050

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☒ Other Beavex

COC Group No. S010401

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES: ☐ NC ☐ SC | UST: ☐ NC ☐ SC | GROUNDWATER: ☐ NC ☐ SC | DRINKING WATER: ☐ NC ☐ SC | SOLID WASTE: ☐ NC ☐ SC | RCRA: ☐ NC ☐ SC | CERCLA ☐ NC ☐ SC | LANDFILL ☐ NC ☐ SC | OTHER: ☐ NC ☐ SC

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

APPENDIX E

GROUNDWATER SAMPLE LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY RECORDS

Mid Atlantic
Engineering & Environmental Solutions

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

02/13/2015

Mid-Atlantic Associates, Inc. - Raleigh
Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Lab Submittal Date: 02/02/2015
Prism Work Order: 5020003

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Terri W. Cole For Angela D. Overcash
Project Manager

Data Qualifiers Key Reference:

D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
MI	Matrix spike outside of the control limits. Matrix interference suspected.
SE	Surrogate recovery outside the QC limits due to emulsion.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Sample Receipt Summary

02/13/2015

Prism Work Order: 5020003

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Trip Blank	5020003-01	Water	01/29/15	02/02/15
Equipment Blank	5020003-02	Water	01/29/15	02/02/15
TMW-1	5020003-03	Water	01/29/15	02/02/15
TMW-3	5020003-04	Water	01/29/15	02/02/15
TMW-5	5020003-05	Water	01/29/15	02/02/15
Duplicate	5020003-06	Water	01/29/15	02/02/15

Samples were received in good condition at 1.2 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

02/13/2015

Prism Work Order: 5020003

Prism ID	Client ID	Parameter	Method	Result		Units
5020003-03	TMW-1	Naphthalene	8270D	6.1	J	ug/L
5020003-03	TMW-1	1,2,4-Trimethylbenzene	8260B	130		ug/L
5020003-03	TMW-1	1,3,5-Trimethylbenzene	8260B	57		ug/L
5020003-03	TMW-1	4-Isopropyltoluene	8260B	13		ug/L
5020003-03	TMW-1	cis-1,2-Dichloroethylene	8260B	1.5		ug/L
5020003-03	TMW-1	Ethylbenzene	8260B	9.1		ug/L
5020003-03	TMW-1	Isopropylbenzene (Cumene)	8260B	7.3		ug/L
5020003-03	TMW-1	m,p-Xylenes	8260B	37		ug/L
5020003-03	TMW-1	Naphthalene	8260B	9.6		ug/L
5020003-03	TMW-1	n-Butylbenzene	8260B	8.7		ug/L
5020003-03	TMW-1	n-Propylbenzene	8260B	11		ug/L
5020003-03	TMW-1	o-Xylene	8260B	18		ug/L
5020003-03	TMW-1	sec-Butylbenzene	8260B	12		ug/L
5020003-03	TMW-1	tert-Butylbenzene	8260B	1.8		ug/L
5020003-03	TMW-1	Toluene	8260B	2.2		ug/L
5020003-04	TMW-3	1-Methylnaphthalene	8270D	4.8	J	ug/L
5020003-04	TMW-3	2-Methylnaphthalene	8270D	7.4	J	ug/L
5020003-04	TMW-3	Naphthalene	8270D	110		ug/L
5020003-04	TMW-3	1,2,4-Trimethylbenzene	8260B	980		ug/L
5020003-04	TMW-3	1,3,5-Trimethylbenzene	8260B	380		ug/L
5020003-04	TMW-3	4-Isopropyltoluene	8260B	44		ug/L
5020003-04	TMW-3	Ethylbenzene	8260B	5.7		ug/L
5020003-04	TMW-3	Isopropylbenzene (Cumene)	8260B	33		ug/L
5020003-04	TMW-3	m,p-Xylenes	8260B	100		ug/L
5020003-04	TMW-3	Naphthalene	8260B	210		ug/L
5020003-04	TMW-3	n-Butylbenzene	8260B	26		ug/L
5020003-04	TMW-3	n-Propylbenzene	8260B	44		ug/L
5020003-04	TMW-3	o-Xylene	8260B	70		ug/L
5020003-04	TMW-3	sec-Butylbenzene	8260B	28		ug/L
5020003-04	TMW-3	tert-Butylbenzene	8260B	9.1		ug/L
5020003-05	TMW-5	1-Methylnaphthalene	8270D	5.6	J	ug/L
5020003-05	TMW-5	2-Methylnaphthalene	8270D	3.6	J	ug/L
5020003-05	TMW-5	3/4-Methylphenol	8270D	15		ug/L
5020003-05	TMW-5	Naphthalene	8270D	7.2	J	ug/L
5020003-05	TMW-5	1,2,4-Trimethylbenzene	8260B	40		ug/L
5020003-05	TMW-5	1,3,5-Trimethylbenzene	8260B	6.8		ug/L
5020003-05	TMW-5	4-Isopropyltoluene	8260B	3.1		ug/L
5020003-05	TMW-5	Acetone	8260B	4.6	J	ug/L
5020003-05	TMW-5	cis-1,2-Dichloroethylene	8260B	1.7		ug/L
5020003-05	TMW-5	Ethylbenzene	8260B	3.6		ug/L
5020003-05	TMW-5	Isopropylbenzene (Cumene)	8260B	4.7		ug/L
5020003-05	TMW-5	m,p-Xylenes	8260B	2.0		ug/L
5020003-05	TMW-5	Methyl Ethyl Ketone (2-Butanone)	8260B	15		ug/L
5020003-05	TMW-5	Naphthalene	8260B	15		ug/L

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

02/13/2015

Prism Work Order: 5020003

Prism ID	Client ID	Parameter	Method	Result		Units
5020003-05	TMW-5	n-Butylbenzene	8260B	2.1		ug/L
5020003-05	TMW-5	n-Propylbenzene	8260B	4.3		ug/L
5020003-05	TMW-5	o-Xylene	8260B	1.3		ug/L
5020003-05	TMW-5	sec-Butylbenzene	8260B	3.1		ug/L
5020003-05	TMW-5	tert-Butylbenzene	8260B	1.1		ug/L
5020003-05	TMW-5	Tetrachloroethylene	8260B	16		ug/L
5020003-05	TMW-5	Toluene	8260B	0.70		ug/L
5020003-05	TMW-5	Vinyl chloride	8260B	1.2		ug/L
5020003-06	Duplicate	Naphthalene	8270D	4.3	J	ug/L
5020003-06	Duplicate	1,2,4-Trimethylbenzene	8260B	140		ug/L
5020003-06	Duplicate	1,3,5-Trimethylbenzene	8260B	67		ug/L
5020003-06	Duplicate	4-Isopropyltoluene	8260B	16		ug/L
5020003-06	Duplicate	cis-1,2-Dichloroethylene	8260B	1.3		ug/L
5020003-06	Duplicate	Ethylbenzene	8260B	12		ug/L
5020003-06	Duplicate	Isopropylbenzene (Cumene)	8260B	9.0		ug/L
5020003-06	Duplicate	m,p-Xylenes	8260B	46		ug/L
5020003-06	Duplicate	Naphthalene	8260B	11		ug/L
5020003-06	Duplicate	n-Butylbenzene	8260B	9.8		ug/L
5020003-06	Duplicate	n-Propylbenzene	8260B	14		ug/L
5020003-06	Duplicate	o-Xylene	8260B	20		ug/L
5020003-06	Duplicate	sec-Butylbenzene	8260B	13		ug/L
5020003-06	Duplicate	tert-Butylbenzene	8260B	1.8		ug/L
5020003-06	Duplicate	Toluene	8260B	2.4		ug/L

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5020003-01
Prism Work Order: 5020003
Time Collected: 01/29/15 00:00
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	2/3/15 16:48	VHL	P5B0063
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	2/3/15 16:48	VHL	P5B0063
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	2/3/15 16:48	VHL	P5B0063
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/3/15 16:48	VHL	P5B0063
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	2/3/15 16:48	VHL	P5B0063
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	2/3/15 16:48	VHL	P5B0063
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	2/3/15 16:48	VHL	P5B0063
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	2/3/15 16:48	VHL	P5B0063
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	2/3/15 16:48	VHL	P5B0063
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	2/3/15 16:48	VHL	P5B0063
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	2/3/15 16:48	VHL	P5B0063
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	2/3/15 16:48	VHL	P5B0063
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	2/3/15 16:48	VHL	P5B0063
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	2/3/15 16:48	VHL	P5B0063
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/3/15 16:48	VHL	P5B0063
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	2/3/15 16:48	VHL	P5B0063
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	2/3/15 16:48	VHL	P5B0063
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	2/3/15 16:48	VHL	P5B0063
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	2/3/15 16:48	VHL	P5B0063
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	2/3/15 16:48	VHL	P5B0063
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	2/3/15 16:48	VHL	P5B0063
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.37	1	8260B	2/3/15 16:48	VHL	P5B0063
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	2/3/15 16:48	VHL	P5B0063
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	2/3/15 16:48	VHL	P5B0063
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	2/3/15 16:48	VHL	P5B0063
Acetone	BRL	ug/L	5.0	0.31	1	8260B	2/3/15 16:48	VHL	P5B0063
Acrolein	BRL	ug/L	20	0.20	1	8260B	2/3/15 16:48	VHL	P5B0063
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	2/3/15 16:48	VHL	P5B0063
Benzene	BRL	ug/L	0.50	0.048	1	8260B	2/3/15 16:48	VHL	P5B0063
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	2/3/15 16:48	VHL	P5B0063
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	2/3/15 16:48	VHL	P5B0063
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	2/3/15 16:48	VHL	P5B0063
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	2/3/15 16:48	VHL	P5B0063
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	2/3/15 16:48	VHL	P5B0063
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	2/3/15 16:48	VHL	P5B0063
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	2/3/15 16:48	VHL	P5B0063
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	2/3/15 16:48	VHL	P5B0063
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	2/3/15 16:48	VHL	P5B0063
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	2/3/15 16:48	VHL	P5B0063
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	2/3/15 16:48	VHL	P5B0063
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	2/3/15 16:48	VHL	P5B0063
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	2/3/15 16:48	VHL	P5B0063

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5020003-01
Prism Work Order: 5020003
Time Collected: 01/29/15 00:00
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	2/3/15 16:48	VHL	P5B0063
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	2/3/15 16:48	VHL	P5B0063
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	2/3/15 16:48	VHL	P5B0063
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	2/3/15 16:48	VHL	P5B0063
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	2/3/15 16:48	VHL	P5B0063
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	2/3/15 16:48	VHL	P5B0063
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	2/3/15 16:48	VHL	P5B0063
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	2/3/15 16:48	VHL	P5B0063
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	2/3/15 16:48	VHL	P5B0063
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	2/3/15 16:48	VHL	P5B0063
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	2/3/15 16:48	VHL	P5B0063
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	2/3/15 16:48	VHL	P5B0063
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	2/3/15 16:48	VHL	P5B0063
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	2/3/15 16:48	VHL	P5B0063
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	2/3/15 16:48	VHL	P5B0063
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	2/3/15 16:48	VHL	P5B0063
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	2/3/15 16:48	VHL	P5B0063
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	2/3/15 16:48	VHL	P5B0063
Styrene	BRL	ug/L	0.50	0.047	1	8260B	2/3/15 16:48	VHL	P5B0063
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	2/3/15 16:48	VHL	P5B0063
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	2/3/15 16:48	VHL	P5B0063
Toluene	BRL	ug/L	0.50	0.044	1	8260B	2/3/15 16:48	VHL	P5B0063
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	2/3/15 16:48	VHL	P5B0063
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	2/3/15 16:48	VHL	P5B0063
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	2/3/15 16:48	VHL	P5B0063
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	2/3/15 16:48	VHL	P5B0063
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	2/3/15 16:48	VHL	P5B0063
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	2/3/15 16:48	VHL	P5B0063

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*
Dibromofluoromethane	*118 %*	*75-129*
Toluene-d8	*117 %*	*77-123*

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: Equipment Blank
Prism Sample ID: 5020003-02
Prism Work Order: 5020003
Time Collected: 01/29/15 08:45
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	2/3/15 17:14	VHL	P5B0063
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	2/3/15 17:14	VHL	P5B0063
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	2/3/15 17:14	VHL	P5B0063
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/3/15 17:14	VHL	P5B0063
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	2/3/15 17:14	VHL	P5B0063
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	2/3/15 17:14	VHL	P5B0063
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	2/3/15 17:14	VHL	P5B0063
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	2/3/15 17:14	VHL	P5B0063
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	2/3/15 17:14	VHL	P5B0063
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	2/3/15 17:14	VHL	P5B0063
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	2/3/15 17:14	VHL	P5B0063
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	2/3/15 17:14	VHL	P5B0063
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	2/3/15 17:14	VHL	P5B0063
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	2/3/15 17:14	VHL	P5B0063
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/3/15 17:14	VHL	P5B0063
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	2/3/15 17:14	VHL	P5B0063
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	2/3/15 17:14	VHL	P5B0063
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	2/3/15 17:14	VHL	P5B0063
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	2/3/15 17:14	VHL	P5B0063
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	2/3/15 17:14	VHL	P5B0063
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	2/3/15 17:14	VHL	P5B0063
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.37	1	8260B	2/3/15 17:14	VHL	P5B0063
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	2/3/15 17:14	VHL	P5B0063
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	2/3/15 17:14	VHL	P5B0063
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	2/3/15 17:14	VHL	P5B0063
Acetone	BRL	ug/L	5.0	0.31	1	8260B	2/3/15 17:14	VHL	P5B0063
Acrolein	BRL	ug/L	20	0.20	1	8260B	2/3/15 17:14	VHL	P5B0063
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	2/3/15 17:14	VHL	P5B0063
Benzene	BRL	ug/L	0.50	0.048	1	8260B	2/3/15 17:14	VHL	P5B0063
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	2/3/15 17:14	VHL	P5B0063
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	2/3/15 17:14	VHL	P5B0063
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	2/3/15 17:14	VHL	P5B0063
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	2/3/15 17:14	VHL	P5B0063
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	2/3/15 17:14	VHL	P5B0063
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	2/3/15 17:14	VHL	P5B0063
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	2/3/15 17:14	VHL	P5B0063
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	2/3/15 17:14	VHL	P5B0063
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	2/3/15 17:14	VHL	P5B0063
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	2/3/15 17:14	VHL	P5B0063
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	2/3/15 17:14	VHL	P5B0063
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	2/3/15 17:14	VHL	P5B0063
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	2/3/15 17:14	VHL	P5B0063

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: Equipment Blank
Prism Sample ID: 5020003-02
Prism Work Order: 5020003
Time Collected: 01/29/15 08:45
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	2/3/15 17:14	VHL	P5B0063
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	2/3/15 17:14	VHL	P5B0063
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	2/3/15 17:14	VHL	P5B0063
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	2/3/15 17:14	VHL	P5B0063
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	2/3/15 17:14	VHL	P5B0063
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	2/3/15 17:14	VHL	P5B0063
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	2/3/15 17:14	VHL	P5B0063
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	2/3/15 17:14	VHL	P5B0063
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	2/3/15 17:14	VHL	P5B0063
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	2/3/15 17:14	VHL	P5B0063
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	2/3/15 17:14	VHL	P5B0063
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	2/3/15 17:14	VHL	P5B0063
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	2/3/15 17:14	VHL	P5B0063
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	2/3/15 17:14	VHL	P5B0063
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	2/3/15 17:14	VHL	P5B0063
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	2/3/15 17:14	VHL	P5B0063
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	2/3/15 17:14	VHL	P5B0063
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	2/3/15 17:14	VHL	P5B0063
Styrene	BRL	ug/L	0.50	0.047	1	8260B	2/3/15 17:14	VHL	P5B0063
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	2/3/15 17:14	VHL	P5B0063
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	2/3/15 17:14	VHL	P5B0063
Toluene	BRL	ug/L	0.50	0.044	1	8260B	2/3/15 17:14	VHL	P5B0063
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	2/3/15 17:14	VHL	P5B0063
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	2/3/15 17:14	VHL	P5B0063
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	2/3/15 17:14	VHL	P5B0063
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	2/3/15 17:14	VHL	P5B0063
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	2/3/15 17:14	VHL	P5B0063
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	2/3/15 17:14	VHL	P5B0063

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*123 %*	*80-124*
Dibromofluoromethane	*115 %*	*75-129*
Toluene-d8	*115 %*	*77-123*

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: TMW-1
Prism Sample ID: 5020003-03
Prism Work Order: 5020003
Time Collected: 01/29/15 11:45
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:33	KC	P5B0106
1,2-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:33	KC	P5B0106
1,3-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:33	KC	P5B0106
1,4-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:33	KC	P5B0106
1-Methylnaphthalene	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:33	KC	P5B0106
2,4,5-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	2/11/15 19:33	KC	P5B0106
2,4,6-Trichlorophenol	BRL	ug/L	10	2.6	1	8270D	2/11/15 19:33	KC	P5B0106
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:33	KC	P5B0106
2,4-Dimethylphenol	BRL	ug/L	10	2.3	1	8270D	2/11/15 19:33	KC	P5B0106
2,4-Dinitrophenol	BRL	ug/L	10	3.7	1	8270D	2/11/15 19:33	KC	P5B0106
2,4-Dinitrotoluene	BRL	ug/L	10	1.9	1	8270D	2/11/15 19:33	KC	P5B0106
2,6-Dinitrotoluene	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:33	KC	P5B0106
2-Chloronaphthalene	BRL	ug/L	10	3.4	1	8270D	2/11/15 19:33	KC	P5B0106
2-Chlorophenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:33	KC	P5B0106
2-Methylnaphthalene	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:33	KC	P5B0106
2-Methylphenol	BRL	ug/L	10	2.1	1	8270D	2/11/15 19:33	KC	P5B0106
2-Nitroaniline	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:33	KC	P5B0106
2-Nitrophenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:33	KC	P5B0106
3,3'-Dichlorobenzidine	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:33	KC	P5B0106
3/4-Methylphenol	BRL	ug/L	10	1.9	1	8270D	2/11/15 19:33	KC	P5B0106
3-Nitroaniline	BRL	ug/L	10	1.2	1	8270D	2/11/15 19:33	KC	P5B0106
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:33	KC	P5B0106
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	2/11/15 19:33	KC	P5B0106
4-Chloro-3-methylphenol	BRL	ug/L	10	1.9	1	8270D	2/11/15 19:33	KC	P5B0106
4-Chloroaniline	BRL	ug/L	10	1.8	1	8270D	2/11/15 19:33	KC	P5B0106
4-Chlorophenyl phenyl ether	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:33	KC	P5B0106
4-Nitroaniline	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:33	KC	P5B0106
4-Nitrophenol	BRL	ug/L	10	0.66	1	8270D	2/11/15 19:33	KC	P5B0106
Acenaphthene	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:33	KC	P5B0106
Acenaphthylene	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:33	KC	P5B0106
Aniline	BRL	ug/L	10	2.1	1	8270D	2/11/15 19:33	KC	P5B0106
Anthracene	BRL	ug/L	10	3.0	1	8270D	2/11/15 19:33	KC	P5B0106
Azobenzene	BRL	ug/L	10	1.8	1	8270D	2/11/15 19:33	KC	P5B0106
Benzo(a)anthracene	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:33	KC	P5B0106
Benzo(a)pyrene	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:33	KC	P5B0106
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	2/11/15 19:33	KC	P5B0106
Benzo(g,h,i)perylene	BRL	ug/L	10	1.8	1	8270D	2/11/15 19:33	KC	P5B0106
Benzo(k)fluoranthene	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:33	KC	P5B0106
Benzoic Acid	BRL	ug/L	100	2.7	1	8270D	2/11/15 19:33	KC	P5B0106
Benzyl alcohol	BRL	ug/L	10	1.8	1	8270D	2/11/15 19:33	KC	P5B0106
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:33	KC	P5B0106
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:33	KC	P5B0106

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: TMW-1
Prism Sample ID: 5020003-03
Prism Work Order: 5020003
Time Collected: 01/29/15 11:45
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:33	KC	P5B0106
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:33	KC	P5B0106
Butyl benzyl phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:33	KC	P5B0106
Chrysene	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:33	KC	P5B0106
Dibenzo(a,h)anthracene	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:33	KC	P5B0106
Dibenzofuran	BRL	ug/L	10	2.3	1	8270D	2/11/15 19:33	KC	P5B0106
Diethyl phthalate	BRL	ug/L	10	1.9	1	8270D	2/11/15 19:33	KC	P5B0106
Dimethyl phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:33	KC	P5B0106
Di-n-butyl phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:33	KC	P5B0106
Di-n-octyl phthalate	BRL	ug/L	10	1.7	1	8270D	2/11/15 19:33	KC	P5B0106
Fluoranthene	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:33	KC	P5B0106
Fluorene	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:33	KC	P5B0106
Hexachlorobenzene	BRL	ug/L	10	1.9	1	8270D	2/11/15 19:33	KC	P5B0106
Hexachlorobutadiene	BRL	ug/L	10	2.6	1	8270D	2/11/15 19:33	KC	P5B0106
Hexachlorocyclopentadiene	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:33	KC	P5B0106
Hexachloroethane	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:33	KC	P5B0106
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.1	1	8270D	2/11/15 19:33	KC	P5B0106
Isophorone	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:33	KC	P5B0106
Naphthalene	**6.1 J**	**ug/L**	**10**	**2.4**	**1**	**8270D**	**2/11/15 19:33**	**KC**	**P5B0106**
Nitrobenzene	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:33	KC	P5B0106
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:33	KC	P5B0106
N-Nitrosodiphenylamine	BRL	ug/L	10	1.8	1	8270D	2/11/15 19:33	KC	P5B0106
Pentachlorophenol	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:33	KC	P5B0106
Phenanthrene	BRL	ug/L	10	1.8	1	8270D	2/11/15 19:33	KC	P5B0106
Phenol	BRL	ug/L	10	1.2	1	8270D	2/11/15 19:33	KC	P5B0106
Pyrene	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:33	KC	P5B0106

Surrogate	Recovery	Control Limits	
2,4,6-Tribromophenol	*59 %*	*49-109*	
2-Fluorobiphenyl	*69 %*	*55-96*	
2-Fluorophenol	*24 %*	*27-74*	*SE*
Nitrobenzene-d5	*69 %*	*53-99*	
Phenol-d5	*16 %*	*11-52*	
Terphenyl-d14	*92 %*	*42-133*	

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	2/3/15 17:40	VHL	P5B0063
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	2/3/15 17:40	VHL	P5B0063
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	2/3/15 17:40	VHL	P5B0063
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/3/15 17:40	VHL	P5B0063
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	2/3/15 17:40	VHL	P5B0063
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	2/3/15 17:40	VHL	P5B0063
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	2/3/15 17:40	VHL	P5B0063
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	2/3/15 17:40	VHL	P5B0063
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	2/3/15 17:40	VHL	P5B0063

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: TMW-1
Prism Sample ID: 5020003-03
Prism Work Order: 5020003
Time Collected: 01/29/15 11:45
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	2/3/15 17:40	VHL	P5B0063
1,2,4-Trimethylbenzene	**130**	**ug/L**	**5.0**	**0.54**	**10**	**8260B**	**2/4/15 18:43**	**VHL**	**P5B0063**
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	2/3/15 17:40	VHL	P5B0063
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	2/3/15 17:40	VHL	P5B0063
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	2/3/15 17:40	VHL	P5B0063
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/3/15 17:40	VHL	P5B0063
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	2/3/15 17:40	VHL	P5B0063
1,3,5-Trimethylbenzene	**57**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**2/3/15 17:40**	**VHL**	**P5B0063**
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	2/3/15 17:40	VHL	P5B0063
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	2/3/15 17:40	VHL	P5B0063
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	2/3/15 17:40	VHL	P5B0063
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	2/3/15 17:40	VHL	P5B0063
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.37	1	8260B	2/3/15 17:40	VHL	P5B0063
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	2/3/15 17:40	VHL	P5B0063
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	2/3/15 17:40	VHL	P5B0063
4-Isopropyltoluene	**13**	**ug/L**	**0.50**	**0.089**	**1**	**8260B**	**2/3/15 17:40**	**VHL**	**P5B0063**
Acetone	BRL	ug/L	5.0	0.31	1	8260B	2/3/15 17:40	VHL	P5B0063
Acrolein	BRL	ug/L	20	0.20	1	8260B	2/3/15 17:40	VHL	P5B0063
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	2/3/15 17:40	VHL	P5B0063
Benzene	BRL	ug/L	0.50	0.048	1	8260B	2/3/15 17:40	VHL	P5B0063
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	2/3/15 17:40	VHL	P5B0063
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	2/3/15 17:40	VHL	P5B0063
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	2/3/15 17:40	VHL	P5B0063
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	2/3/15 17:40	VHL	P5B0063
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	2/3/15 17:40	VHL	P5B0063
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	2/3/15 17:40	VHL	P5B0063
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	2/3/15 17:40	VHL	P5B0063
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	2/3/15 17:40	VHL	P5B0063
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	2/3/15 17:40	VHL	P5B0063
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	2/3/15 17:40	VHL	P5B0063
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	2/3/15 17:40	VHL	P5B0063
cis-1,2-Dichloroethylene	**1.5**	**ug/L**	**0.50**	**0.056**	**1**	**8260B**	**2/3/15 17:40**	**VHL**	**P5B0063**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	2/3/15 17:40	VHL	P5B0063
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	2/3/15 17:40	VHL	P5B0063
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	2/3/15 17:40	VHL	P5B0063
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	2/3/15 17:40	VHL	P5B0063
Ethylbenzene	**9.1**	**ug/L**	**0.50**	**0.061**	**1**	**8260B**	**2/3/15 17:40**	**VHL**	**P5B0063**
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	2/3/15 17:40	VHL	P5B0063
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	2/3/15 17:40	VHL	P5B0063
Isopropylbenzene (Cumene)	**7.3**	**ug/L**	**0.50**	**0.054**	**1**	**8260B**	**2/3/15 17:40**	**VHL**	**P5B0063**
m,p-Xylenes	**37**	**ug/L**	**1.0**	**0.12**	**1**	**8260B**	**2/3/15 17:40**	**VHL**	**P5B0063**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	2/3/15 17:40	VHL	P5B0063
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	2/3/15 17:40	VHL	P5B0063

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: TMW-1
Prism Sample ID: 5020003-03
Prism Work Order: 5020003
Time Collected: 01/29/15 11:45
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	2/3/15 17:40	VHL	P5B0063
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	2/3/15 17:40	VHL	P5B0063
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	2/3/15 17:40	VHL	P5B0063
Naphthalene	**9.6**	**ug/L**	**1.0**	**0.19**	**1**	**8260B**	**2/3/15 17:40**	**VHL**	**P5B0063**
n-Butylbenzene	**8.7**	**ug/L**	**1.0**	**0.076**	**1**	**8260B**	**2/3/15 17:40**	**VHL**	**P5B0063**
n-Propylbenzene	**11**	**ug/L**	**0.50**	**0.087**	**1**	**8260B**	**2/3/15 17:40**	**VHL**	**P5B0063**
o-Xylene	**18**	**ug/L**	**0.50**	**0.044**	**1**	**8260B**	**2/3/15 17:40**	**VHL**	**P5B0063**
sec-Butylbenzene	**12**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**2/3/15 17:40**	**VHL**	**P5B0063**
Styrene	BRL	ug/L	0.50	0.047	1	8260B	2/3/15 17:40	VHL	P5B0063
tert-Butylbenzene	**1.8**	**ug/L**	**0.50**	**0.088**	**1**	**8260B**	**2/3/15 17:40**	**VHL**	**P5B0063**
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	2/3/15 17:40	VHL	P5B0063
Toluene	**2.2**	**ug/L**	**0.50**	**0.044**	**1**	**8260B**	**2/3/15 17:40**	**VHL**	**P5B0063**
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	2/3/15 17:40	VHL	P5B0063
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	2/3/15 17:40	VHL	P5B0063
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	2/3/15 17:40	VHL	P5B0063
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	2/3/15 17:40	VHL	P5B0063
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	2/3/15 17:40	VHL	P5B0063
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	2/3/15 17:40	VHL	P5B0063

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*116 %*	*80-124*
Dibromofluoromethane	*112 %*	*75-129*
Toluene-d8	*116 %*	*77-123*

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: TMW-3
Prism Sample ID: 5020003-04
Prism Work Order: 5020003
Time Collected: 01/29/15 10:45
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:55	KC	P5B0106
1,2-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:55	KC	P5B0106
1,3-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:55	KC	P5B0106
1,4-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:55	KC	P5B0106
1-Methylnaphthalene	**4.8 J**	**ug/L**	**10**	**2.4**	**1**	**8270D**	**2/11/15 19:55**	**KC**	**P5B0106**
2,4,5-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	2/11/15 19:55	KC	P5B0106
2,4,6-Trichlorophenol	BRL	ug/L	10	2.6	1	8270D	2/11/15 19:55	KC	P5B0106
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:55	KC	P5B0106
2,4-Dimethylphenol	BRL	ug/L	10	2.3	1	8270D	2/11/15 19:55	KC	P5B0106
2,4-Dinitrophenol	BRL	ug/L	10	3.7	1	8270D	2/11/15 19:55	KC	P5B0106
2,4-Dinitrotoluene	BRL	ug/L	10	1.9	1	8270D	2/11/15 19:55	KC	P5B0106
2,6-Dinitrotoluene	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:55	KC	P5B0106
2-Chloronaphthalene	BRL	ug/L	10	3.4	1	8270D	2/11/15 19:55	KC	P5B0106
2-Chlorophenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:55	KC	P5B0106
2-Methylnaphthalene	**7.4 J**	**ug/L**	**10**	**2.2**	**1**	**8270D**	**2/11/15 19:55**	**KC**	**P5B0106**
2-Methylphenol	BRL	ug/L	10	2.1	1	8270D	2/11/15 19:55	KC	P5B0106
2-Nitroaniline	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:55	KC	P5B0106
2-Nitrophenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:55	KC	P5B0106
3,3'-Dichlorobenzidine	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:55	KC	P5B0106
3/4-Methylphenol	BRL	ug/L	10	1.9	1	8270D	2/11/15 19:55	KC	P5B0106
3-Nitroaniline	BRL	ug/L	10	1.2	1	8270D	2/11/15 19:55	KC	P5B0106
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:55	KC	P5B0106
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	2/11/15 19:55	KC	P5B0106
4-Chloro-3-methylphenol	BRL	ug/L	10	1.9	1	8270D	2/11/15 19:55	KC	P5B0106
4-Chloroaniline	BRL	ug/L	10	1.8	1	8270D	2/11/15 19:55	KC	P5B0106
4-Chlorophenyl phenyl ether	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:55	KC	P5B0106
4-Nitroaniline	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:55	KC	P5B0106
4-Nitrophenol	BRL	ug/L	10	0.66	1	8270D	2/11/15 19:55	KC	P5B0106
Acenaphthene	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:55	KC	P5B0106
Acenaphthylene	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:55	KC	P5B0106
Aniline	BRL	ug/L	10	2.1	1	8270D	2/11/15 19:55	KC	P5B0106
Anthracene	BRL	ug/L	10	3.0	1	8270D	2/11/15 19:55	KC	P5B0106
Azobenzene	BRL	ug/L	10	1.8	1	8270D	2/11/15 19:55	KC	P5B0106
Benzo(a)anthracene	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:55	KC	P5B0106
Benzo(a)pyrene	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:55	KC	P5B0106
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	2/11/15 19:55	KC	P5B0106
Benzo(g,h,i)perylene	BRL	ug/L	10	1.8	1	8270D	2/11/15 19:55	KC	P5B0106
Benzo(k)fluoranthene	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:55	KC	P5B0106
Benzoic Acid	BRL	ug/L	100	2.7	1	8270D	2/11/15 19:55	KC	P5B0106
Benzyl alcohol	BRL	ug/L	10	1.8	1	8270D	2/11/15 19:55	KC	P5B0106
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:55	KC	P5B0106
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:55	KC	P5B0106

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: TMW-3
Prism Sample ID: 5020003-04
Prism Work Order: 5020003
Time Collected: 01/29/15 10:45
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:55	KC	P5B0106
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:55	KC	P5B0106
Butyl benzyl phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:55	KC	P5B0106
Chrysene	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:55	KC	P5B0106
Dibenzo(a,h)anthracene	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:55	KC	P5B0106
Dibenzofuran	BRL	ug/L	10	2.3	1	8270D	2/11/15 19:55	KC	P5B0106
Diethyl phthalate	BRL	ug/L	10	1.9	1	8270D	2/11/15 19:55	KC	P5B0106
Dimethyl phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:55	KC	P5B0106
Di-n-butyl phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 19:55	KC	P5B0106
Di-n-octyl phthalate	BRL	ug/L	10	1.7	1	8270D	2/11/15 19:55	KC	P5B0106
Fluoranthene	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:55	KC	P5B0106
Fluorene	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:55	KC	P5B0106
Hexachlorobenzene	BRL	ug/L	10	1.9	1	8270D	2/11/15 19:55	KC	P5B0106
Hexachlorobutadiene	BRL	ug/L	10	2.6	1	8270D	2/11/15 19:55	KC	P5B0106
Hexachlorocyclopentadiene	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:55	KC	P5B0106
Hexachloroethane	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:55	KC	P5B0106
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.1	1	8270D	2/11/15 19:55	KC	P5B0106
Isophorone	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:55	KC	P5B0106
Naphthalene	**110**	**ug/L**	**10**	**2.4**	**1**	**8270D**	**2/11/15 19:55**	**KC**	**P5B0106**
Nitrobenzene	BRL	ug/L	10	2.4	1	8270D	2/11/15 19:55	KC	P5B0106
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:55	KC	P5B0106
N-Nitrosodiphenylamine	BRL	ug/L	10	1.8	1	8270D	2/11/15 19:55	KC	P5B0106
Pentachlorophenol	BRL	ug/L	10	2.5	1	8270D	2/11/15 19:55	KC	P5B0106
Phenanthrene	BRL	ug/L	10	1.8	1	8270D	2/11/15 19:55	KC	P5B0106
Phenol	BRL	ug/L	10	1.2	1	8270D	2/11/15 19:55	KC	P5B0106
Pyrene	BRL	ug/L	10	2.2	1	8270D	2/11/15 19:55	KC	P5B0106

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*74 %*	*49-109*
2-Fluorobiphenyl	*69 %*	*55-96*
2-Fluorophenol	*33 %*	*27-74*
Nitrobenzene-d5	*63 %*	*53-99*
Phenol-d5	*22 %*	*11-52*
Terphenyl-d14	*78 %*	*42-133*

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	5.0	1.1	10	8260B	2/3/15 18:59	VHL	P5B0063
1,1,1-Trichloroethane	BRL	ug/L	5.0	0.61	10	8260B	2/3/15 18:59	VHL	P5B0063
1,1,2,2-Tetrachloroethane	BRL	ug/L	5.0	0.36	10	8260B	2/3/15 18:59	VHL	P5B0063
1,1,2-Trichloroethane	BRL	ug/L	5.0	0.66	10	8260B	2/3/15 18:59	VHL	P5B0063
1,1-Dichloroethane	BRL	ug/L	5.0	0.83	10	8260B	2/3/15 18:59	VHL	P5B0063
1,1-Dichloroethylene	BRL	ug/L	5.0	0.83	10	8260B	2/3/15 18:59	VHL	P5B0063
1,1-Dichloropropylene	BRL	ug/L	5.0	0.51	10	8260B	2/3/15 18:59	VHL	P5B0063
1,2,3-Trichlorobenzene	BRL	ug/L	20	4.0	10	8260B	2/3/15 18:59	VHL	P5B0063
1,2,3-Trichloropropane	BRL	ug/L	10	1.4	10	8260B	2/3/15 18:59	VHL	P5B0063

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: TMW-3
Prism Sample ID: 5020003-04
Prism Work Order: 5020003
Time Collected: 01/29/15 10:45
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.3	10	8260B	2/3/15 18:59	VHL	P5B0063
1,2,4-Trimethylbenzene	**980**	**ug/L**	**50**	**5.4**	**100**	**8260B**	**2/3/15 14:37**	**VHL**	**P5B0063**
1,2-Dibromo-3-chloropropane	BRL	ug/L	20	1.7	10	8260B	2/3/15 18:59	VHL	P5B0063
1,2-Dibromoethane	BRL	ug/L	5.0	0.51	10	8260B	2/3/15 18:59	VHL	P5B0063
1,2-Dichlorobenzene	BRL	ug/L	5.0	0.76	10	8260B	2/3/15 18:59	VHL	P5B0063
1,2-Dichloroethane	BRL	ug/L	5.0	0.66	10	8260B	2/3/15 18:59	VHL	P5B0063
1,2-Dichloropropane	BRL	ug/L	5.0	1.1	10	8260B	2/3/15 18:59	VHL	P5B0063
1,3,5-Trimethylbenzene	**380**	**ug/L**	**5.0**	**0.76**	**10**	**8260B**	**2/3/15 18:59**	**VHL**	**P5B0063**
1,3-Dichlorobenzene	BRL	ug/L	5.0	0.54	10	8260B	2/3/15 18:59	VHL	P5B0063
1,3-Dichloropropane	BRL	ug/L	5.0	0.43	10	8260B	2/3/15 18:59	VHL	P5B0063
1,4-Dichlorobenzene	BRL	ug/L	5.0	0.50	10	8260B	2/3/15 18:59	VHL	P5B0063
2,2-Dichloropropane	BRL	ug/L	20	1.1	10	8260B	2/3/15 18:59	VHL	P5B0063
2-Chloroethyl Vinyl Ether	BRL	ug/L	50	3.7	10	8260B	2/3/15 18:59	VHL	P5B0063
2-Chlorotoluene	BRL	ug/L	5.0	0.66	10	8260B	2/3/15 18:59	VHL	P5B0063
4-Chlorotoluene	BRL	ug/L	5.0	0.50	10	8260B	2/3/15 18:59	VHL	P5B0063
4-Isopropyltoluene	**44**	**ug/L**	**5.0**	**0.89**	**10**	**8260B**	**2/3/15 18:59**	**VHL**	**P5B0063**
Acetone	BRL	ug/L	50	3.1	10	8260B	2/3/15 18:59	VHL	P5B0063
Acrolein	BRL	ug/L	200	2.0	10	8260B	2/3/15 18:59	VHL	P5B0063
Acrylonitrile	BRL	ug/L	200	2.0	10	8260B	2/3/15 18:59	VHL	P5B0063
Benzene	BRL	ug/L	5.0	0.48	10	8260B	2/3/15 18:59	VHL	P5B0063
Bromobenzene	BRL	ug/L	5.0	0.57	10	8260B	2/3/15 18:59	VHL	P5B0063
Bromochloromethane	BRL	ug/L	5.0	1.4	10	8260B	2/3/15 18:59	VHL	P5B0063
Bromodichloromethane	BRL	ug/L	5.0	0.62	10	8260B	2/3/15 18:59	VHL	P5B0063
Bromoform	BRL	ug/L	10	0.40	10	8260B	2/3/15 18:59	VHL	P5B0063
Bromomethane	BRL	ug/L	10	1.8	10	8260B	2/3/15 18:59	VHL	P5B0063
Carbon disulfide	BRL	ug/L	50	0.75	10	8260B	2/3/15 18:59	VHL	P5B0063
Carbon Tetrachloride	BRL	ug/L	5.0	1.1	10	8260B	2/3/15 18:59	VHL	P5B0063
Chlorobenzene	BRL	ug/L	5.0	0.62	10	8260B	2/3/15 18:59	VHL	P5B0063
Chloroethane	BRL	ug/L	5.0	2.2	10	8260B	2/3/15 18:59	VHL	P5B0063
Chloroform	BRL	ug/L	5.0	0.76	10	8260B	2/3/15 18:59	VHL	P5B0063
Chloromethane	BRL	ug/L	5.0	0.79	10	8260B	2/3/15 18:59	VHL	P5B0063
cis-1,2-Dichloroethylene	BRL	ug/L	5.0	0.56	10	8260B	2/3/15 18:59	VHL	P5B0063
cis-1,3-Dichloropropylene	BRL	ug/L	5.0	0.79	10	8260B	2/3/15 18:59	VHL	P5B0063
Dibromochloromethane	BRL	ug/L	5.0	0.81	10	8260B	2/3/15 18:59	VHL	P5B0063
Dibromomethane	BRL	ug/L	5.0	0.65	10	8260B	2/3/15 18:59	VHL	P5B0063
Dichlorodifluoromethane	BRL	ug/L	10	1.1	10	8260B	2/3/15 18:59	VHL	P5B0063
Ethylbenzene	**5.7**	**ug/L**	**5.0**	**0.61**	**10**	**8260B**	**2/3/15 18:59**	**VHL**	**P5B0063**
Hexachlorobutadiene	BRL	ug/L	20	1.6	10	8260B	2/3/15 18:59	VHL	P5B0063
Isopropyl Ether	BRL	ug/L	5.0	0.50	10	8260B	2/3/15 18:59	VHL	P5B0063
Isopropylbenzene (Cumene)	**33**	**ug/L**	**5.0**	**0.54**	**10**	**8260B**	**2/3/15 18:59**	**VHL**	**P5B0063**
m,p-Xylenes	**100**	**ug/L**	**10**	**1.2**	**10**	**8260B**	**2/3/15 18:59**	**VHL**	**P5B0063**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	50	0.65	10	8260B	2/3/15 18:59	VHL	P5B0063
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	50	2.4	10	8260B	2/3/15 18:59	VHL	P5B0063

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: TMW-3
Prism Sample ID: 5020003-04
Prism Work Order: 5020003
Time Collected: 01/29/15 10:45
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Isobutyl Ketone	BRL	ug/L	50	0.78	10	8260B	2/3/15 18:59	VHL	P5B0063
Methylene Chloride	BRL	ug/L	10	0.83	10	8260B	2/3/15 18:59	VHL	P5B0063
Methyl-tert-Butyl Ether	BRL	ug/L	5.0	0.42	10	8260B	2/3/15 18:59	VHL	P5B0063
Naphthalene	**210**	**ug/L**	**10**	**1.9**	**10**	**8260B**	**2/3/15 18:59**	**VHL**	**P5B0063**
n-Butylbenzene	**26**	**ug/L**	**10**	**0.76**	**10**	**8260B**	**2/3/15 18:59**	**VHL**	**P5B0063**
n-Propylbenzene	**44**	**ug/L**	**5.0**	**0.87**	**10**	**8260B**	**2/3/15 18:59**	**VHL**	**P5B0063**
o-Xylene	**70**	**ug/L**	**5.0**	**0.44**	**10**	**8260B**	**2/3/15 18:59**	**VHL**	**P5B0063**
sec-Butylbenzene	**28**	**ug/L**	**5.0**	**0.76**	**10**	**8260B**	**2/3/15 18:59**	**VHL**	**P5B0063**
Styrene	BRL	ug/L	5.0	0.47	10	8260B	2/3/15 18:59	VHL	P5B0063
tert-Butylbenzene	**9.1**	**ug/L**	**5.0**	**0.88**	**10**	**8260B**	**2/3/15 18:59**	**VHL**	**P5B0063**
Tetrachloroethylene	BRL	ug/L	5.0	0.98	10	8260B	2/3/15 18:59	VHL	P5B0063
Toluene	BRL	ug/L	5.0	0.44	10	8260B	2/3/15 18:59	VHL	P5B0063
trans-1,2-Dichloroethylene	BRL	ug/L	5.0	0.94	10	8260B	2/3/15 18:59	VHL	P5B0063
trans-1,3-Dichloropropylene	BRL	ug/L	5.0	0.70	10	8260B	2/3/15 18:59	VHL	P5B0063
Trichloroethylene	BRL	ug/L	5.0	0.78	10	8260B	2/3/15 18:59	VHL	P5B0063
Trichlorofluoromethane	BRL	ug/L	5.0	0.62	10	8260B	2/3/15 18:59	VHL	P5B0063
Vinyl acetate	BRL	ug/L	20	0.60	10	8260B	2/3/15 18:59	VHL	P5B0063
Vinyl chloride	BRL	ug/L	5.0	0.97	10	8260B	2/3/15 18:59	VHL	P5B0063

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*118 %*	*80-124*
Dibromofluoromethane	*108 %*	*75-129*
Toluene-d8	*114 %*	*77-123*

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: TMW-5
Prism Sample ID: 5020003-05
Prism Work Order: 5020003
Time Collected: 01/29/15 09:50
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:16	KC	P5B0106
1,2-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:16	KC	P5B0106
1,3-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:16	KC	P5B0106
1,4-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:16	KC	P5B0106
1-Methylnaphthalene	**5.6 J**	**ug/L**	**10**	**2.4**	**1**	**8270D**	**2/11/15 20:16**	**KC**	**P5B0106**
2,4,5-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	2/11/15 20:16	KC	P5B0106
2,4,6-Trichlorophenol	BRL	ug/L	10	2.6	1	8270D	2/11/15 20:16	KC	P5B0106
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:16	KC	P5B0106
2,4-Dimethylphenol	BRL	ug/L	10	2.3	1	8270D	2/11/15 20:16	KC	P5B0106
2,4-Dinitrophenol	BRL	ug/L	10	3.7	1	8270D	2/11/15 20:16	KC	P5B0106
2,4-Dinitrotoluene	BRL	ug/L	10	1.9	1	8270D	2/11/15 20:16	KC	P5B0106
2,6-Dinitrotoluene	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:16	KC	P5B0106
2-Chloronaphthalene	BRL	ug/L	10	3.4	1	8270D	2/11/15 20:16	KC	P5B0106
2-Chlorophenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:16	KC	P5B0106
2-Methylnaphthalene	**3.6 J**	**ug/L**	**10**	**2.2**	**1**	**8270D**	**2/11/15 20:16**	**KC**	**P5B0106**
2-Methylphenol	BRL	ug/L	10	2.1	1	8270D	2/11/15 20:16	KC	P5B0106
2-Nitroaniline	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:16	KC	P5B0106
2-Nitrophenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:16	KC	P5B0106
3,3'-Dichlorobenzidine	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:16	KC	P5B0106
3/4-Methylphenol	**15**	**ug/L**	**10**	**1.9**	**1**	**8270D**	**2/11/15 20:16**	**KC**	**P5B0106**
3-Nitroaniline	BRL	ug/L	10	1.2	1	8270D	2/11/15 20:16	KC	P5B0106
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:16	KC	P5B0106
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	2/11/15 20:16	KC	P5B0106
4-Chloro-3-methylphenol	BRL	ug/L	10	1.9	1	8270D	2/11/15 20:16	KC	P5B0106
4-Chloroaniline	BRL	ug/L	10	1.8	1	8270D	2/11/15 20:16	KC	P5B0106
4-Chlorophenyl phenyl ether	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:16	KC	P5B0106
4-Nitroaniline	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:16	KC	P5B0106
4-Nitrophenol	BRL	ug/L	10	0.66	1	8270D	2/11/15 20:16	KC	P5B0106
Acenaphthene	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:16	KC	P5B0106
Acenaphthylene	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:16	KC	P5B0106
Aniline	BRL	ug/L	10	2.1	1	8270D	2/11/15 20:16	KC	P5B0106
Anthracene	BRL	ug/L	10	3.0	1	8270D	2/11/15 20:16	KC	P5B0106
Azobenzene	BRL	ug/L	10	1.8	1	8270D	2/11/15 20:16	KC	P5B0106
Benzo(a)anthracene	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:16	KC	P5B0106
Benzo(a)pyrene	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:16	KC	P5B0106
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	2/11/15 20:16	KC	P5B0106
Benzo(g,h,i)perylene	BRL	ug/L	10	1.8	1	8270D	2/11/15 20:16	KC	P5B0106
Benzo(k)fluoranthene	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:16	KC	P5B0106
Benzoic Acid	BRL	ug/L	100	2.7	1	8270D	2/11/15 20:16	KC	P5B0106
Benzyl alcohol	BRL	ug/L	10	1.8	1	8270D	2/11/15 20:16	KC	P5B0106
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:16	KC	P5B0106
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:16	KC	P5B0106

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: TMW-5
Prism Sample ID: 5020003-05
Prism Work Order: 5020003
Time Collected: 01/29/15 09:50
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:16	KC	P5B0106
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:16	KC	P5B0106
Butyl benzyl phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:16	KC	P5B0106
Chrysene	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:16	KC	P5B0106
Dibenzo(a,h)anthracene	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:16	KC	P5B0106
Dibenzofuran	BRL	ug/L	10	2.3	1	8270D	2/11/15 20:16	KC	P5B0106
Diethyl phthalate	BRL	ug/L	10	1.9	1	8270D	2/11/15 20:16	KC	P5B0106
Dimethyl phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:16	KC	P5B0106
Di-n-butyl phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:16	KC	P5B0106
Di-n-octyl phthalate	BRL	ug/L	10	1.7	1	8270D	2/11/15 20:16	KC	P5B0106
Fluoranthene	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:16	KC	P5B0106
Fluorene	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:16	KC	P5B0106
Hexachlorobenzene	BRL	ug/L	10	1.9	1	8270D	2/11/15 20:16	KC	P5B0106
Hexachlorobutadiene	BRL	ug/L	10	2.6	1	8270D	2/11/15 20:16	KC	P5B0106
Hexachlorocyclopentadiene	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:16	KC	P5B0106
Hexachloroethane	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:16	KC	P5B0106
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.1	1	8270D	2/11/15 20:16	KC	P5B0106
Isophorone	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:16	KC	P5B0106
Naphthalene	**7.2 J**	**ug/L**	**10**	**2.4**	**1**	**8270D**	**2/11/15 20:16**	**KC**	**P5B0106**
Nitrobenzene	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:16	KC	P5B0106
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:16	KC	P5B0106
N-Nitrosodiphenylamine	BRL	ug/L	10	1.8	1	8270D	2/11/15 20:16	KC	P5B0106
Pentachlorophenol	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:16	KC	P5B0106
Phenanthrene	BRL	ug/L	10	1.8	1	8270D	2/11/15 20:16	KC	P5B0106
Phenol	BRL	ug/L	10	1.2	1	8270D	2/11/15 20:16	KC	P5B0106
Pyrene	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:16	KC	P5B0106

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*96 %*	*49-109*
2-Fluorobiphenyl	*87 %*	*55-96*
2-Fluorophenol	*47 %*	*27-74*
Nitrobenzene-d5	*90 %*	*53-99*
Phenol-d5	*31 %*	*11-52*
Terphenyl-d14	*99 %*	*42-133*

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	2/3/15 18:33	VHL	P5B0063
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	2/3/15 18:33	VHL	P5B0063
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	2/3/15 18:33	VHL	P5B0063
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/3/15 18:33	VHL	P5B0063
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	2/3/15 18:33	VHL	P5B0063
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	2/3/15 18:33	VHL	P5B0063
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	2/3/15 18:33	VHL	P5B0063
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	2/3/15 18:33	VHL	P5B0063
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	2/3/15 18:33	VHL	P5B0063

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
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Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: TMW-5
Prism Sample ID: 5020003-05
Prism Work Order: 5020003
Time Collected: 01/29/15 09:50
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	2/3/15 18:33	VHL	P5B0063
1,2,4-Trimethylbenzene	**40**	**ug/L**	**0.50**	**0.054**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	2/3/15 18:33	VHL	P5B0063
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	2/3/15 18:33	VHL	P5B0063
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	2/3/15 18:33	VHL	P5B0063
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/3/15 18:33	VHL	P5B0063
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	2/3/15 18:33	VHL	P5B0063
1,3,5-Trimethylbenzene	**6.8**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	2/3/15 18:33	VHL	P5B0063
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	2/3/15 18:33	VHL	P5B0063
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	2/3/15 18:33	VHL	P5B0063
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	2/3/15 18:33	VHL	P5B0063
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.37	1	8260B	2/3/15 18:33	VHL	P5B0063
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	2/3/15 18:33	VHL	P5B0063
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	2/3/15 18:33	VHL	P5B0063
4-Isopropyltoluene	**3.1**	**ug/L**	**0.50**	**0.089**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
Acetone	**4.6 J**	**ug/L**	**5.0**	**0.31**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
Acrolein	BRL	ug/L	20	0.20	1	8260B	2/3/15 18:33	VHL	P5B0063
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	2/3/15 18:33	VHL	P5B0063
Benzene	BRL	ug/L	0.50	0.048	1	8260B	2/3/15 18:33	VHL	P5B0063
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	2/3/15 18:33	VHL	P5B0063
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	2/3/15 18:33	VHL	P5B0063
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	2/3/15 18:33	VHL	P5B0063
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	2/3/15 18:33	VHL	P5B0063
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	2/3/15 18:33	VHL	P5B0063
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	2/3/15 18:33	VHL	P5B0063
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	2/3/15 18:33	VHL	P5B0063
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	2/3/15 18:33	VHL	P5B0063
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	2/3/15 18:33	VHL	P5B0063
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	2/3/15 18:33	VHL	P5B0063
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	2/3/15 18:33	VHL	P5B0063
cis-1,2-Dichloroethylene	**1.7**	**ug/L**	**0.50**	**0.056**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	2/3/15 18:33	VHL	P5B0063
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	2/3/15 18:33	VHL	P5B0063
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	2/3/15 18:33	VHL	P5B0063
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	2/3/15 18:33	VHL	P5B0063
Ethylbenzene	**3.6**	**ug/L**	**0.50**	**0.061**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	2/3/15 18:33	VHL	P5B0063
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	2/3/15 18:33	VHL	P5B0063
Isopropylbenzene (Cumene)	**4.7**	**ug/L**	**0.50**	**0.054**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
m,p-Xylenes	**2.0**	**ug/L**	**1.0**	**0.12**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	2/3/15 18:33	VHL	P5B0063
Methyl Ethyl Ketone (2-Butanone)	**15**	**ug/L**	**5.0**	**0.24**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: TMW-5
Prism Sample ID: 5020003-05
Prism Work Order: 5020003
Time Collected: 01/29/15 09:50
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	2/3/15 18:33	VHL	P5B0063
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	2/3/15 18:33	VHL	P5B0063
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	2/3/15 18:33	VHL	P5B0063
Naphthalene	**15**	**ug/L**	**1.0**	**0.19**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
n-Butylbenzene	**2.1**	**ug/L**	**1.0**	**0.076**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
n-Propylbenzene	**4.3**	**ug/L**	**0.50**	**0.087**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
o-Xylene	**1.3**	**ug/L**	**0.50**	**0.044**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
sec-Butylbenzene	**3.1**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
Styrene	BRL	ug/L	0.50	0.047	1	8260B	2/3/15 18:33	VHL	P5B0063
tert-Butylbenzene	**1.1**	**ug/L**	**0.50**	**0.088**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
Tetrachloroethylene	**16**	**ug/L**	**0.50**	**0.098**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
Toluene	**0.70**	**ug/L**	**0.50**	**0.044**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	2/3/15 18:33	VHL	P5B0063
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	2/3/15 18:33	VHL	P5B0063
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	2/3/15 18:33	VHL	P5B0063
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	2/3/15 18:33	VHL	P5B0063
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	2/3/15 18:33	VHL	P5B0063
Vinyl chloride	**1.2**	**ug/L**	**0.50**	**0.097**	**1**	**8260B**	**2/3/15 18:33**	**VHL**	**P5B0063**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*110 %*	*75-129*
Toluene-d8	*118 %*	*77-123*

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: Duplicate
Prism Sample ID: 5020003-06
Prism Work Order: 5020003
Time Collected: 01/29/15 11:50
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:37	KC	P5B0106
1,2-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:37	KC	P5B0106
1,3-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:37	KC	P5B0106
1,4-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:37	KC	P5B0106
1-Methylnaphthalene	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:37	KC	P5B0106
2,4,5-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	2/11/15 20:37	KC	P5B0106
2,4,6-Trichlorophenol	BRL	ug/L	10	2.6	1	8270D	2/11/15 20:37	KC	P5B0106
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:37	KC	P5B0106
2,4-Dimethylphenol	BRL	ug/L	10	2.3	1	8270D	2/11/15 20:37	KC	P5B0106
2,4-Dinitrophenol	BRL	ug/L	10	3.7	1	8270D	2/11/15 20:37	KC	P5B0106
2,4-Dinitrotoluene	BRL	ug/L	10	1.9	1	8270D	2/11/15 20:37	KC	P5B0106
2,6-Dinitrotoluene	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:37	KC	P5B0106
2-Chloronaphthalene	BRL	ug/L	10	3.4	1	8270D	2/11/15 20:37	KC	P5B0106
2-Chlorophenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:37	KC	P5B0106
2-Methylnaphthalene	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:37	KC	P5B0106
2-Methylphenol	BRL	ug/L	10	2.1	1	8270D	2/11/15 20:37	KC	P5B0106
2-Nitroaniline	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:37	KC	P5B0106
2-Nitrophenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:37	KC	P5B0106
3,3'-Dichlorobenzidine	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:37	KC	P5B0106
3/4-Methylphenol	BRL	ug/L	10	1.9	1	8270D	2/11/15 20:37	KC	P5B0106
3-Nitroaniline	BRL	ug/L	10	1.2	1	8270D	2/11/15 20:37	KC	P5B0106
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:37	KC	P5B0106
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	2/11/15 20:37	KC	P5B0106
4-Chloro-3-methylphenol	BRL	ug/L	10	1.9	1	8270D	2/11/15 20:37	KC	P5B0106
4-Chloroaniline	BRL	ug/L	10	1.8	1	8270D	2/11/15 20:37	KC	P5B0106
4-Chlorophenyl phenyl ether	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:37	KC	P5B0106
4-Nitroaniline	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:37	KC	P5B0106
4-Nitrophenol	BRL	ug/L	10	0.66	1	8270D	2/11/15 20:37	KC	P5B0106
Acenaphthene	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:37	KC	P5B0106
Acenaphthylene	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:37	KC	P5B0106
Aniline	BRL	ug/L	10	2.1	1	8270D	2/11/15 20:37	KC	P5B0106
Anthracene	BRL	ug/L	10	3.0	1	8270D	2/11/15 20:37	KC	P5B0106
Azobenzene	BRL	ug/L	10	1.8	1	8270D	2/11/15 20:37	KC	P5B0106
Benzo(a)anthracene	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:37	KC	P5B0106
Benzo(a)pyrene	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:37	KC	P5B0106
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	2/11/15 20:37	KC	P5B0106
Benzo(g,h,i)perylene	BRL	ug/L	10	1.8	1	8270D	2/11/15 20:37	KC	P5B0106
Benzo(k)fluoranthene	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:37	KC	P5B0106
Benzoic Acid	BRL	ug/L	100	2.7	1	8270D	2/11/15 20:37	KC	P5B0106
Benzyl alcohol	BRL	ug/L	10	1.8	1	8270D	2/11/15 20:37	KC	P5B0106
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:37	KC	P5B0106
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:37	KC	P5B0106

Mid-Atlantic Associates, Inc. - Raleigh
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Project: Mel-Burn Dry Cleaners (Havelock)

Sample Matrix: Water

Client Sample ID: Duplicate
Prism Sample ID: 5020003-06
Prism Work Order: 5020003
Time Collected: 01/29/15 11:50
Time Submitted: 02/02/15 09:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:37	KC	P5B0106
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:37	KC	P5B0106
Butyl benzyl phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:37	KC	P5B0106
Chrysene	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:37	KC	P5B0106
Dibenzo(a,h)anthracene	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:37	KC	P5B0106
Dibenzofuran	BRL	ug/L	10	2.3	1	8270D	2/11/15 20:37	KC	P5B0106
Diethyl phthalate	BRL	ug/L	10	1.9	1	8270D	2/11/15 20:37	KC	P5B0106
Dimethyl phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:37	KC	P5B0106
Di-n-butyl phthalate	BRL	ug/L	10	2.0	1	8270D	2/11/15 20:37	KC	P5B0106
Di-n-octyl phthalate	BRL	ug/L	10	1.7	1	8270D	2/11/15 20:37	KC	P5B0106
Fluoranthene	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:37	KC	P5B0106
Fluorene	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:37	KC	P5B0106
Hexachlorobenzene	BRL	ug/L	10	1.9	1	8270D	2/11/15 20:37	KC	P5B0106
Hexachlorobutadiene	BRL	ug/L	10	2.6	1	8270D	2/11/15 20:37	KC	P5B0106
Hexachlorocyclopentadiene	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:37	KC	P5B0106
Hexachloroethane	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:37	KC	P5B0106
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.1	1	8270D	2/11/15 20:37	KC	P5B0106
Isophorone	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:37	KC	P5B0106
Naphthalene	**4.3 J**	**ug/L**	**10**	**2.4**	**1**	**8270D**	**2/11/15 20:37**	**KC**	**P5B0106**
Nitrobenzene	BRL	ug/L	10	2.4	1	8270D	2/11/15 20:37	KC	P5B0106
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:37	KC	P5B0106
N-Nitrosodiphenylamine	BRL	ug/L	10	1.8	1	8270D	2/11/15 20:37	KC	P5B0106
Pentachlorophenol	BRL	ug/L	10	2.5	1	8270D	2/11/15 20:37	KC	P5B0106
Phenanthrene	BRL	ug/L	10	1.8	1	8270D	2/11/15 20:37	KC	P5B0106
Phenol	BRL	ug/L	10	1.2	1	8270D	2/11/15 20:37	KC	P5B0106
Pyrene	BRL	ug/L	10	2.2	1	8270D	2/11/15 20:37	KC	P5B0106

Surrogate	Recovery	Control Limits	
2,4,6-Tribromophenol	*67 %*	*49-109*	
2-Fluorobiphenyl	*54 %*	*55-96*	*SE*
2-Fluorophenol	*24 %*	*27-74*	*SE*
Nitrobenzene-d5	*54 %*	*53-99*	
Phenol-d5	*15 %*	*11-52*	
Terphenyl-d14	*73 %*	*42-133*	

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	2/3/15 18:07	VHL	P5B0063
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	2/3/15 18:07	VHL	P5B0063
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	2/3/15 18:07	VHL	P5B0063
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/3/15 18:07	VHL	P5B0063
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	2/3/15 18:07	VHL	P5B0063
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	2/3/15 18:07	VHL	P5B0063
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	2/3/15 18:07	VHL	P5B0063
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	2/3/15 18:07	VHL	P5B0063
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	2/3/15 18:07	VHL	P5B0063

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Prism Work Order: 5020003
Time Collected: 01/29/15 11:50
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Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	2/3/15 18:07	VHL	P5B0063
1,2,4-Trimethylbenzene	**140**	**ug/L**	**5.0**	**0.54**	**10**	**8260B**	**2/4/15 20:26**	**VHL**	**P5B0063**
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	2/3/15 18:07	VHL	P5B0063
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	2/3/15 18:07	VHL	P5B0063
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	2/3/15 18:07	VHL	P5B0063
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/3/15 18:07	VHL	P5B0063
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	2/3/15 18:07	VHL	P5B0063
1,3,5-Trimethylbenzene	**67**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**2/3/15 18:07**	**VHL**	**P5B0063**
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	2/3/15 18:07	VHL	P5B0063
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	2/3/15 18:07	VHL	P5B0063
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	2/3/15 18:07	VHL	P5B0063
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	2/3/15 18:07	VHL	P5B0063
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.37	1	8260B	2/3/15 18:07	VHL	P5B0063
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	2/3/15 18:07	VHL	P5B0063
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	2/3/15 18:07	VHL	P5B0063
4-Isopropyltoluene	**16**	**ug/L**	**0.50**	**0.089**	**1**	**8260B**	**2/3/15 18:07**	**VHL**	**P5B0063**
Acetone	BRL	ug/L	5.0	0.31	1	8260B	2/3/15 18:07	VHL	P5B0063
Acrolein	BRL	ug/L	20	0.20	1	8260B	2/3/15 18:07	VHL	P5B0063
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	2/3/15 18:07	VHL	P5B0063
Benzene	BRL	ug/L	0.50	0.048	1	8260B	2/3/15 18:07	VHL	P5B0063
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	2/3/15 18:07	VHL	P5B0063
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	2/3/15 18:07	VHL	P5B0063
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	2/3/15 18:07	VHL	P5B0063
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	2/3/15 18:07	VHL	P5B0063
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	2/3/15 18:07	VHL	P5B0063
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	2/3/15 18:07	VHL	P5B0063
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	2/3/15 18:07	VHL	P5B0063
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	2/3/15 18:07	VHL	P5B0063
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	2/3/15 18:07	VHL	P5B0063
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	2/3/15 18:07	VHL	P5B0063
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	2/3/15 18:07	VHL	P5B0063
cis-1,2-Dichloroethylene	**1.3**	**ug/L**	**0.50**	**0.056**	**1**	**8260B**	**2/3/15 18:07**	**VHL**	**P5B0063**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	2/3/15 18:07	VHL	P5B0063
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	2/3/15 18:07	VHL	P5B0063
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	2/3/15 18:07	VHL	P5B0063
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	2/3/15 18:07	VHL	P5B0063
Ethylbenzene	**12**	**ug/L**	**0.50**	**0.061**	**1**	**8260B**	**2/3/15 18:07**	**VHL**	**P5B0063**
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	2/3/15 18:07	VHL	P5B0063
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	2/3/15 18:07	VHL	P5B0063
Isopropylbenzene (Cumene)	**9.0**	**ug/L**	**0.50**	**0.054**	**1**	**8260B**	**2/3/15 18:07**	**VHL**	**P5B0063**
m,p-Xylenes	**46**	**ug/L**	**1.0**	**0.12**	**1**	**8260B**	**2/3/15 18:07**	**VHL**	**P5B0063**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	2/3/15 18:07	VHL	P5B0063
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	2/3/15 18:07	VHL	P5B0063

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Prism Sample ID: 5020003-06
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Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	2/3/15 18:07	VHL	P5B0063
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	2/3/15 18:07	VHL	P5B0063
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	2/3/15 18:07	VHL	P5B0063
Naphthalene	**11**	**ug/L**	**1.0**	**0.19**	**1**	**8260B**	**2/3/15 18:07**	**VHL**	**P5B0063**
n-Butylbenzene	**9.8**	**ug/L**	**1.0**	**0.076**	**1**	**8260B**	**2/3/15 18:07**	**VHL**	**P5B0063**
n-Propylbenzene	**14**	**ug/L**	**0.50**	**0.087**	**1**	**8260B**	**2/3/15 18:07**	**VHL**	**P5B0063**
o-Xylene	**20**	**ug/L**	**0.50**	**0.044**	**1**	**8260B**	**2/3/15 18:07**	**VHL**	**P5B0063**
sec-Butylbenzene	**13**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**2/3/15 18:07**	**VHL**	**P5B0063**
Styrene	BRL	ug/L	0.50	0.047	1	8260B	2/3/15 18:07	VHL	P5B0063
tert-Butylbenzene	**1.8**	**ug/L**	**0.50**	**0.088**	**1**	**8260B**	**2/3/15 18:07**	**VHL**	**P5B0063**
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	2/3/15 18:07	VHL	P5B0063
Toluene	**2.4**	**ug/L**	**0.50**	**0.044**	**1**	**8260B**	**2/3/15 18:07**	**VHL**	**P5B0063**
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	2/3/15 18:07	VHL	P5B0063
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	2/3/15 18:07	VHL	P5B0063
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	2/3/15 18:07	VHL	P5B0063
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	2/3/15 18:07	VHL	P5B0063
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	2/3/15 18:07	VHL	P5B0063
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	2/3/15 18:07	VHL	P5B0063

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*114 %*	*80-124*
Dibromofluoromethane	*87 %*	*75-129*
Toluene-d8	*101 %*	*77-123*

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Prism Work Order: 5020003
Time Submitted: 2/2/2015 9:00:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0063 - 5030B										
Blank (P5B0063-BLK1)				Prepared & Analyzed: 02/03/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chloroethyl Vinyl Ether	BRL	5.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0063 - 5030B										
Blank (P5B0063-BLK1)				Prepared & Analyzed: 02/03/15						
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*59.6*		*ug/L*	*50.00*		*119*	*80-124*			
Surrogate: Dibromofluoromethane	*57.5*		*ug/L*	*50.00*		*115*	*75-129*			
Surrogate: Toluene-d8	*59.8*		*ug/L*	*50.00*		*120*	*77-123*			

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0063 - 5030B										
LCS (P5B0063-BS1)				Prepared & Analyzed: 02/03/15						
1,1,1,2-Tetrachloroethane	21.7	0.50	ug/L	20.00		109	79-134			
1,1,1-Trichloroethane	20.1	0.50	ug/L	20.00		100	75-136			
1,1,2,2-Tetrachloroethane	20.5	0.50	ug/L	20.00		102	62-127			
1,1,2-Trichloroethane	17.8	0.50	ug/L	20.00		89	70-140			
1,1-Dichloroethane	21.0	0.50	ug/L	20.00		105	78-130			
1,1-Dichloroethylene	21.6	0.50	ug/L	20.00		108	70-154			
1,1-Dichloropropylene	20.2	0.50	ug/L	20.00		101	71-136			
1,2,3-Trichlorobenzene	23.4	2.0	ug/L	20.00		117	58-144			
1,2,3-Trichloropropane	21.9	1.0	ug/L	20.00		109	71-127			
1,2,4-Trichlorobenzene	24.7	1.0	ug/L	20.00		123	66-139			
1,2,4-Trimethylbenzene	20.7	0.50	ug/L	20.00		104	75-133			
1,2-Dibromo-3-chloropropane	23.8	2.0	ug/L	20.00		119	63-134			
1,2-Dibromoethane	21.0	0.50	ug/L	20.00		105	77-135			
1,2-Dichlorobenzene	22.5	0.50	ug/L	20.00		112	78-128			
1,2-Dichloroethane	19.9	0.50	ug/L	20.00		99	68-131			
1,2-Dichloropropane	18.5	0.50	ug/L	20.00		93	77-130			
1,3,5-Trimethylbenzene	21.4	0.50	ug/L	20.00		107	75-131			
1,3-Dichlorobenzene	21.7	0.50	ug/L	20.00		108	77-125			
1,3-Dichloropropane	21.7	0.50	ug/L	20.00		108	76-132			
1,4-Dichlorobenzene	22.0	0.50	ug/L	20.00		110	75-126			
2,2-Dichloropropane	22.8	2.0	ug/L	20.00		114	29-149			
2-Chloroethyl Vinyl Ether	17.0	5.0	ug/L	20.00		85	34-144			
2-Chlorotoluene	20.4	0.50	ug/L	20.00		102	74-126			
4-Chlorotoluene	23.3	0.50	ug/L	20.00		116	78-129			
4-Isopropyltoluene	20.2	0.50	ug/L	20.00		101	69-132			
Acetone	24.2	5.0	ug/L	40.00		60	40-166			
Acrolein	38.7	20	ug/L	40.00		97	70-130			
Acrylonitrile	36.7	20	ug/L	40.00		92	81-127			
Benzene	21.1	0.50	ug/L	20.00		106	77-128			
Bromobenzene	21.7	0.50	ug/L	20.00		108	78-129			
Bromochloromethane	20.0	0.50	ug/L	20.00		100	78-135			
Bromodichloromethane	17.5	0.50	ug/L	20.00		87	76-138			
Bromoform	21.8	1.0	ug/L	20.00		109	71-135			
Bromomethane	15.7	1.0	ug/L	20.00		79	41-168			
Carbon disulfide	18.2	5.0	ug/L	20.00		91	59-135			
Carbon Tetrachloride	20.8	0.50	ug/L	20.00		104	72-142			
Chlorobenzene	20.5	0.50	ug/L	20.00		103	78-119			
Chloroethane	22.9	0.50	ug/L	20.00		115	57-142			
Chloroform	18.5	0.50	ug/L	20.00		93	77-130			
Chloromethane	20.4	0.50	ug/L	20.00		102	47-145			
cis-1,2-Dichloroethylene	20.8	0.50	ug/L	20.00		104	76-141			
cis-1,3-Dichloropropylene	16.4	0.50	ug/L	20.00		82	65-140			
Dibromochloromethane	21.0	0.50	ug/L	20.00		105	75-134			
Dibromomethane	19.0	0.50	ug/L	20.00		95	76-138			
Dichlorodifluoromethane	18.7	1.0	ug/L	20.00		93	28-163			
Ethylbenzene	21.8	0.50	ug/L	20.00		109	80-127			

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0063 - 5030B										
LCS (P5B0063-BS1)				Prepared & Analyzed: 02/03/15						
Hexachlorobutadiene	23.5	2.0	ug/L	20.00		118	61-134			
Isopropyl Ether	19.5	0.50	ug/L	20.00		98	60-154			
Isopropylbenzene (Cumene)	19.7	0.50	ug/L	20.00		98	70-130			
m,p-Xylenes	47.8	1.0	ug/L	40.00		119	77-133			
Methyl Butyl Ketone (2-Hexanone)	19.8	5.0	ug/L	20.00		99	64-137			
Methyl Ethyl Ketone (2-Butanone)	18.0	5.0	ug/L	20.00		90	71-134			
Methyl Isobutyl Ketone	14.1	5.0	ug/L	20.00		71	69-134			
Methylene Chloride	20.3	1.0	ug/L	20.00		101	73-131			
Methyl-tert-Butyl Ether	21.5	0.50	ug/L	20.00		108	68-135			
Naphthalene	19.5	1.0	ug/L	20.00		97	64-136			
n-Butylbenzene	20.2	1.0	ug/L	20.00		101	68-134			
n-Propylbenzene	20.4	0.50	ug/L	20.00		102	72-132			
o-Xylene	19.5	0.50	ug/L	20.00		98	78-128			
sec-Butylbenzene	19.1	0.50	ug/L	20.00		96	71-131			
Styrene	17.4	0.50	ug/L	20.00		87	78-129			
tert-Butylbenzene	21.4	0.50	ug/L	20.00		107	70-132			
Tetrachloroethylene	23.6	0.50	ug/L	20.00		118	80-129			
Toluene	15.8	0.50	ug/L	20.00		79	76-131			
trans-1,2-Dichloroethylene	20.6	0.50	ug/L	20.00		103	76-135			
trans-1,3-Dichloropropylene	15.6	0.50	ug/L	20.00		78	67-140			
Trichloroethylene	19.0	0.50	ug/L	20.00		95	77-133			
Trichlorofluoromethane	25.1	0.50	ug/L	20.00		125	62-148			
Vinyl acetate	22.0	2.0	ug/L	20.00		110	34-167			
Vinyl chloride	19.0	0.50	ug/L	20.00		95	57-141			
Surrogate: 4-Bromofluorobenzene	*56.6*		*ug/L*	*50.00*		*113*	*80-124*			
Surrogate: Dibromofluoromethane	*54.4*		*ug/L*	*50.00*		*109*	*75-129*			
Surrogate: Toluene-d8	*59.5*		*ug/L*	*50.00*		*119*	*77-123*			

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0063 - 5030B										
LCS Dup (P5B0063-BSD1)				Prepared & Analyzed: 02/03/15						
1,1,1,2-Tetrachloroethane	22.8	0.50	ug/L	20.00		114	79-134	5	20	
1,1,1-Trichloroethane	20.3	0.50	ug/L	20.00		102	75-136	1	20	
1,1,2,2-Tetrachloroethane	20.5	0.50	ug/L	20.00		103	62-127	0.1	20	
1,1,2-Trichloroethane	16.1	0.50	ug/L	20.00		80	70-140	10	20	
1,1-Dichloroethane	22.4	0.50	ug/L	20.00		112	78-130	6	20	
1,1-Dichloroethylene	23.1	0.50	ug/L	20.00		116	70-154	7	20	
1,1-Dichloropropylene	20.7	0.50	ug/L	20.00		103	71-136	2	20	
1,2,3-Trichlorobenzene	21.1	2.0	ug/L	20.00		106	58-144	10	20	
1,2,3-Trichloropropane	20.7	1.0	ug/L	20.00		103	71-127	6	20	
1,2,4-Trichlorobenzene	22.7	1.0	ug/L	20.00		113	66-139	8	20	
1,2,4-Trimethylbenzene	20.5	0.50	ug/L	20.00		103	75-133	0.9	20	
1,2-Dibromo-3-chloropropane	20.1	2.0	ug/L	20.00		100	63-134	17	20	
1,2-Dibromoethane	20.7	0.50	ug/L	20.00		104	77-135	1	20	
1,2-Dichlorobenzene	22.7	0.50	ug/L	20.00		114	78-128	0.9	20	
1,2-Dichloroethane	19.8	0.50	ug/L	20.00		99	68-131	0.5	20	
1,2-Dichloropropane	19.3	0.50	ug/L	20.00		97	77-130	4	20	
1,3,5-Trimethylbenzene	21.9	0.50	ug/L	20.00		109	75-131	2	20	
1,3-Dichlorobenzene	22.4	0.50	ug/L	20.00		112	77-125	3	20	
1,3-Dichloropropane	21.3	0.50	ug/L	20.00		107	76-132	2	20	
1,4-Dichlorobenzene	22.0	0.50	ug/L	20.00		110	75-126	0.2	20	
2,2-Dichloropropane	23.2	2.0	ug/L	20.00		116	29-149	2	20	
2-Chloroethyl Vinyl Ether	16.9	5.0	ug/L	20.00		84	34-144	0.3	20	
2-Chlorotoluene	21.2	0.50	ug/L	20.00		106	74-126	4	20	
4-Chlorotoluene	23.6	0.50	ug/L	20.00		118	78-129	2	20	
4-Isopropyltoluene	20.9	0.50	ug/L	20.00		105	69-132	3	20	
Acetone	22.0	5.0	ug/L	40.00		55	40-166	9	20	
Acrolein	38.1	20	ug/L	40.00		95	70-130	2	20	
Acrylonitrile	35.2	20	ug/L	40.00		88	81-127	4	20	
Benzene	21.9	0.50	ug/L	20.00		109	77-128	4	20	
Bromobenzene	21.9	0.50	ug/L	20.00		110	78-129	1	20	
Bromochloromethane	20.6	0.50	ug/L	20.00		103	78-135	3	20	
Bromodichloromethane	17.4	0.50	ug/L	20.00		87	76-138	0.2	20	
Bromoform	21.6	1.0	ug/L	20.00		108	71-135	0.6	20	
Bromomethane	19.0	1.0	ug/L	20.00		95	41-168	19	20	
Carbon disulfide	19.4	5.0	ug/L	20.00		97	59-135	6	20	
Carbon Tetrachloride	21.8	0.50	ug/L	20.00		109	72-142	5	20	
Chlorobenzene	21.1	0.50	ug/L	20.00		106	78-119	3	20	
Chloroethane	26.7	0.50	ug/L	20.00		134	57-142	15	20	
Chloroform	18.4	0.50	ug/L	20.00		92	77-130	0.9	20	
Chloromethane	20.9	0.50	ug/L	20.00		105	47-145	2	20	
cis-1,2-Dichloroethylene	21.4	0.50	ug/L	20.00		107	76-141	3	20	
cis-1,3-Dichloropropylene	16.7	0.50	ug/L	20.00		84	65-140	2	20	
Dibromochloromethane	21.0	0.50	ug/L	20.00		105	75-134	0.1	20	
Dibromomethane	19.2	0.50	ug/L	20.00		96	76-138	1	20	
Dichlorodifluoromethane	19.9	1.0	ug/L	20.00		99	28-163	6	20	
Ethylbenzene	22.5	0.50	ug/L	20.00		113	80-127	3	20	

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0063 - 5030B										
LCS Dup (P5B0063-BSD1)				Prepared & Analyzed: 02/03/15						
Hexachlorobutadiene	21.8	2.0	ug/L	20.00		109	61-134	8	20	
Isopropyl Ether	20.0	0.50	ug/L	20.00		100	60-154	3	20	
Isopropylbenzene (Cumene)	20.1	0.50	ug/L	20.00		101	70-130	2	20	
m,p-Xylenes	49.9	1.0	ug/L	40.00		125	77-133	4	20	
Methyl Butyl Ketone (2-Hexanone)	18.6	5.0	ug/L	20.00		93	64-137	6	20	
Methyl Ethyl Ketone (2-Butanone)	18.9	5.0	ug/L	20.00		95	71-134	5	20	
Methyl Isobutyl Ketone	14.0	5.0	ug/L	20.00		70	69-134	1	20	
Methylene Chloride	20.7	1.0	ug/L	20.00		103	73-131	2	20	
Methyl-tert-Butyl Ether	21.9	0.50	ug/L	20.00		109	68-135	2	20	
Naphthalene	17.0	1.0	ug/L	20.00		85	64-136	14	20	
n-Butylbenzene	20.4	1.0	ug/L	20.00		102	68-134	1	20	
n-Propylbenzene	21.1	0.50	ug/L	20.00		106	72-132	3	20	
o-Xylene	19.9	0.50	ug/L	20.00		99	78-128	2	20	
sec-Butylbenzene	19.5	0.50	ug/L	20.00		98	71-131	2	20	
Styrene	17.6	0.50	ug/L	20.00		88	78-129	1	20	
tert-Butylbenzene	21.4	0.50	ug/L	20.00		107	70-132	0.3	20	
Tetrachloroethylene	23.6	0.50	ug/L	20.00		118	80-129	0	20	
Toluene	16.3	0.50	ug/L	20.00		82	76-131	3	20	
trans-1,2-Dichloroethylene	21.4	0.50	ug/L	20.00		107	76-135	4	20	
trans-1,3-Dichloropropylene	15.7	0.50	ug/L	20.00		78	67-140	0.3	20	
Trichloroethylene	20.0	0.50	ug/L	20.00		100	77-133	5	20	
Trichlorofluoromethane	25.4	0.50	ug/L	20.00		127	62-148	1	20	
Vinyl acetate	21.8	2.0	ug/L	20.00		109	34-167	0.6	20	
Vinyl chloride	20.3	0.50	ug/L	20.00		102	57-141	7	20	
Surrogate: 4-Bromofluorobenzene	*56.9*		*ug/L*	*50.00*		*114*	*80-124*			
Surrogate: Dibromofluoromethane	*54.7*		*ug/L*	*50.00*		*109*	*75-129*			
Surrogate: Toluene-d8	*59.0*		*ug/L*	*50.00*		*118*	*77-123*			

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Prism Work Order: 5020003
Time Submitted: 2/2/2015 9:00:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0063 - 5030B										
Matrix Spike (P5B0063-MS1)	**Source: 5020003-03**			Prepared: 02/03/15 Analyzed: 02/04/15						
1,1,1,2-Tetrachloroethane	217	5.0	ug/L	200.0	BRL	108	78-134			
1,1,1-Trichloroethane	209	5.0	ug/L	200.0	BRL	104	67-145			
1,1,2,2-Tetrachloroethane	197	5.0	ug/L	200.0	BRL	98	68-123			
1,1,2-Trichloroethane	157	5.0	ug/L	200.0	BRL	78	75-134			
1,1-Dichloroethane	213	5.0	ug/L	200.0	BRL	106	75-134			
1,1-Dichloroethylene	236	5.0	ug/L	200.0	BRL	118	65-162			
1,1-Dichloropropylene	215	5.0	ug/L	200.0	BRL	107	68-140			
1,2,3-Trichlorobenzene	239	20	ug/L	200.0	BRL	120	56-146			
1,2,3-Trichloropropane	205	10	ug/L	200.0	BRL	102	73-122			
1,2,4-Trichlorobenzene	253	10	ug/L	200.0	BRL	126	67-135			
1,2,4-Trimethylbenzene	329	5.0	ug/L	200.0	133	98	75-131			
1,2-Dibromo-3-chloropropane	206	20	ug/L	200.0	BRL	103	64-133			
1,2-Dibromoethane	206	5.0	ug/L	200.0	BRL	103	80-129			
1,2-Dichlorobenzene	226	5.0	ug/L	200.0	BRL	113	80-125			
1,2-Dichloroethane	193	5.0	ug/L	200.0	BRL	97	69-129			
1,2-Dichloropropane	192	5.0	ug/L	200.0	BRL	96	75-131			
1,3,5-Trimethylbenzene	267	5.0	ug/L	200.0	57.1	105	75-131			
1,3-Dichlorobenzene	223	5.0	ug/L	200.0	BRL	112	79-122			
1,3-Dichloropropane	208	5.0	ug/L	200.0	BRL	104	80-125			
1,4-Dichlorobenzene	219	5.0	ug/L	200.0	BRL	110	76-124			
2,2-Dichloropropane	184	20	ug/L	200.0	BRL	92	21-140			
2-Chloroethyl Vinyl Ether	171	50	ug/L	200.0	BRL	85	15-181			
2-Chlorotoluene	218	5.0	ug/L	200.0	BRL	109	75-125			
4-Chlorotoluene	234	5.0	ug/L	200.0	BRL	117	76-130			
4-Isopropyltoluene	232	5.0	ug/L	200.0	13.1	109	72-129			
Acetone	260	50	ug/L	400.0	BRL	65	40-162			
Acrolein	334	200	ug/L	400.0	BRL	83	70-130			
Acrylonitrile	384	200	ug/L	400.0	BRL	96	78-129			
Benzene	228	5.0	ug/L	200.0	BRL	114	73-131			
Bromobenzene	217	5.0	ug/L	200.0	BRL	109	80-125			
Bromochloromethane	207	5.0	ug/L	200.0	BRL	103	78-135			
Bromodichloromethane	171	5.0	ug/L	200.0	BRL	86	74-138			
Bromoform	198	10	ug/L	200.0	BRL	99	72-130			
Bromomethane	136	10	ug/L	200.0	BRL	68	41-173			
Carbon disulfide	193	50	ug/L	200.0	BRL	96	59-138			
Carbon Tetrachloride	221	5.0	ug/L	200.0	BRL	110	66-149			
Chlorobenzene	215	5.0	ug/L	200.0	BRL	107	76-119			
Chloroethane	247	5.0	ug/L	200.0	BRL	123	52-153			
Chloroform	190	5.0	ug/L	200.0	BRL	95	74-136			
Chloromethane	214	5.0	ug/L	200.0	BRL	107	39-155			
cis-1,2-Dichloroethylene	214	5.0	ug/L	200.0	1.47	106	74-144			
cis-1,3-Dichloropropylene	159	5.0	ug/L	200.0	BRL	80	64-132			
Dibromochloromethane	203	5.0	ug/L	200.0	BRL	102	77-131			
Dibromomethane	187	5.0	ug/L	200.0	BRL	94	76-136			
Dichlorodifluoromethane	196	10	ug/L	200.0	BRL	98	22-170			
Ethylbenzene	230	5.0	ug/L	200.0	9.11	110	78-130			

Mid-Atlantic Associates, Inc. - Raleigh
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Project: Mel-Burn Dry Cleaners (Havelock)

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0063 - 5030B										
Matrix Spike (P5B0063-MS1)	**Source: 5020003-03**			Prepared: 02/03/15 Analyzed: 02/04/15						
Hexachlorobutadiene	222	20	ug/L	200.0	BRL	111	63-132			
Isopropyl Ether	201	5.0	ug/L	200.0	BRL	100	62-154			
Isopropylbenzene (Cumene)	206	5.0	ug/L	200.0	7.29	100	72-127			
m,p-Xylenes	522	10	ug/L	400.0	37.4	121	66-144			
Methyl Butyl Ketone (2-Hexanone)	183	50	ug/L	200.0	BRL	91	65-130			
Methyl Ethyl Ketone (2-Butanone)	177	50	ug/L	200.0	BRL	89	65-137			
Methyl Isobutyl Ketone	140	50	ug/L	200.0	BRL	70	64-137			
Methylene Chloride	222	10	ug/L	200.0	BRL	111	71-134			
Methyl-tert-Butyl Ether	211	5.0	ug/L	200.0	BRL	106	71-133			
Naphthalene	192	10	ug/L	200.0	9.62	91	63-134			
n-Butylbenzene	220	10	ug/L	200.0	8.71	106	69-132			
n-Propylbenzene	222	5.0	ug/L	200.0	10.8	106	75-130			
o-Xylene	214	5.0	ug/L	200.0	17.7	98	75-131			
sec-Butylbenzene	207	5.0	ug/L	200.0	12.2	98	72-130			
Styrene	176	5.0	ug/L	200.0	BRL	88	77-128			
tert-Butylbenzene	215	5.0	ug/L	200.0	1.79	107	72-130			
Tetrachloroethylene	239	5.0	ug/L	200.0	BRL	119	76-130			
Toluene	168	5.0	ug/L	200.0	2.20	83	72-135			
trans-1,2-Dichloroethylene	221	5.0	ug/L	200.0	BRL	111	73-141			
trans-1,3-Dichloropropylene	148	5.0	ug/L	200.0	BRL	74	64-137			
Trichloroethylene	208	5.0	ug/L	200.0	BRL	104	72-133			
Trichlorofluoromethane	260	5.0	ug/L	200.0	BRL	130	61-152			
Vinyl acetate	217	20	ug/L	200.0	BRL	108	80-154			
Vinyl chloride	208	5.0	ug/L	200.0	BRL	104	54-146			
Surrogate: 4-Bromofluorobenzene	*56.5*		*ug/L*	*50.00*		*113*	*80-124*			
Surrogate: Dibromofluoromethane	*54.5*		*ug/L*	*50.00*		*109*	*75-129*			
Surrogate: Toluene-d8	*59.8*		*ug/L*	*50.00*		*120*	*77-123*			

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Project: Mel-Burn Dry Cleaners
(Havelock)

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0063 - 5030B										
Matrix Spike Dup (P5B0063-MSD1)	**Source: 5020003-03**			Prepared: 02/03/15 Analyzed: 02/04/15						
1,1,1,2-Tetrachloroethane	212	5.0	ug/L	200.0	BRL	106	78-134	2	19	
1,1,1-Trichloroethane	191	5.0	ug/L	200.0	BRL	96	67-145	9	18	
1,1,2,2-Tetrachloroethane	199	5.0	ug/L	200.0	BRL	100	68-123	1	19	
1,1,2-Trichloroethane	149	5.0	ug/L	200.0	BRL	75	75-134	5	18	
1,1-Dichloroethane	222	5.0	ug/L	200.0	BRL	111	75-134	4	18	
1,1-Dichloroethylene	221	5.0	ug/L	200.0	BRL	110	65-162	6	20	
1,1-Dichloropropylene	201	5.0	ug/L	200.0	BRL	101	68-140	6	19	
1,2,3-Trichlorobenzene	199	20	ug/L	200.0	BRL	99	56-146	18	31	
1,2,3-Trichloropropane	211	10	ug/L	200.0	BRL	105	73-122	3	18	
1,2,4-Trichlorobenzene	236	10	ug/L	200.0	BRL	118	67-135	7	20	
1,2,4-Trimethylbenzene	325	5.0	ug/L	200.0	133	96	75-131	1	18	
1,2-Dibromo-3-chloropropane	204	20	ug/L	200.0	BRL	102	64-133	0.9	25	
1,2-Dibromoethane	196	5.0	ug/L	200.0	BRL	98	80-129	5	19	
1,2-Dichlorobenzene	227	5.0	ug/L	200.0	BRL	113	80-125	0.04	16	
1,2-Dichloroethane	179	5.0	ug/L	200.0	BRL	90	69-129	8	17	
1,2-Dichloropropane	178	5.0	ug/L	200.0	BRL	89	75-131	7	17	
1,3,5-Trimethylbenzene	263	5.0	ug/L	200.0	57.1	103	75-131	2	19	
1,3-Dichlorobenzene	217	5.0	ug/L	200.0	BRL	109	79-122	3	17	
1,3-Dichloropropane	199	5.0	ug/L	200.0	BRL	100	80-125	4	18	
1,4-Dichlorobenzene	216	5.0	ug/L	200.0	BRL	108	76-124	1	17	
2,2-Dichloropropane	179	20	ug/L	200.0	BRL	90	21-140	3	19	
2-Chloroethyl Vinyl Ether	156	50	ug/L	200.0	BRL	78	15-181	9	44	
2-Chlorotoluene	218	5.0	ug/L	200.0	BRL	109	75-125	0.3	24	
4-Chlorotoluene	230	5.0	ug/L	200.0	BRL	115	76-130	2	16	
4-Isopropyltoluene	230	5.0	ug/L	200.0	13.1	108	72-129	0.8	19	
Acetone	246	50	ug/L	400.0	BRL	62	40-162	5	23	
Acrolein	347	200	ug/L	400.0	BRL	87	70-130	4	20	
Acrylonitrile	406	200	ug/L	400.0	BRL	102	78-129	6	20	
Benzene	212	5.0	ug/L	200.0	BRL	106	73-131	7	17	
Bromobenzene	216	5.0	ug/L	200.0	BRL	108	80-125	0.6	18	
Bromochloromethane	194	5.0	ug/L	200.0	BRL	97	78-135	7	17	
Bromodichloromethane	162	5.0	ug/L	200.0	BRL	81	74-138	5	19	
Bromoform	200	10	ug/L	200.0	BRL	100	72-130	0.8	22	
Bromomethane	167	10	ug/L	200.0	BRL	84	41-173	20	33	
Carbon disulfide	182	50	ug/L	200.0	BRL	91	59-138	6	27	
Carbon Tetrachloride	197	5.0	ug/L	200.0	BRL	99	66-149	11	23	
Chlorobenzene	202	5.0	ug/L	200.0	BRL	101	76-119	6	20	
Chloroethane	242	5.0	ug/L	200.0	BRL	121	52-153	2	24	
Chloroform	177	5.0	ug/L	200.0	BRL	88	74-136	7	19	
Chloromethane	198	5.0	ug/L	200.0	BRL	99	39-155	8	20	
cis-1,2-Dichloroethylene	200	5.0	ug/L	200.0	1.47	100	74-144	7	17	
cis-1,3-Dichloropropylene	149	5.0	ug/L	200.0	BRL	75	64-132	7	18	
Dibromochloromethane	194	5.0	ug/L	200.0	BRL	97	77-131	5	21	
Dibromomethane	179	5.0	ug/L	200.0	BRL	89	76-136	5	18	
Dichlorodifluoromethane	185	10	ug/L	200.0	BRL	93	22-170	6	22	
Ethylbenzene	219	5.0	ug/L	200.0	9.11	105	78-130	5	18	

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0063 - 5030B										
Matrix Spike Dup (P5B0063-MSD1)	**Source: 5020003-03**			Prepared: 02/03/15 Analyzed: 02/04/15						
Hexachlorobutadiene	224	20	ug/L	200.0	BRL	112	63-132	0.7	26	
Isopropyl Ether	189	5.0	ug/L	200.0	BRL	94	62-154	6	18	
Isopropylbenzene (Cumene)	206	5.0	ug/L	200.0	7.29	100	72-127	0.05	19	
m,p-Xylenes	500	10	ug/L	400.0	37.4	116	66-144	4	19	
Methyl Butyl Ketone (2-Hexanone)	177	50	ug/L	200.0	BRL	88	65-130	3	23	
Methyl Ethyl Ketone (2-Butanone)	187	50	ug/L	200.0	BRL	94	65-137	5	23	
Methyl Isobutyl Ketone	134	50	ug/L	200.0	BRL	67	64-137	4	24	
Methylene Chloride	205	10	ug/L	200.0	BRL	103	71-134	8	17	
Methyl-tert-Butyl Ether	200	5.0	ug/L	200.0	BRL	100	71-133	5	19	
Naphthalene	181	10	ug/L	200.0	9.62	86	63-134	6	32	
n-Butylbenzene	219	10	ug/L	200.0	8.71	105	69-132	0.9	21	
n-Propylbenzene	222	5.0	ug/L	200.0	10.8	106	75-130	0.2	18	
o-Xylene	201	5.0	ug/L	200.0	17.7	92	75-131	6	20	
sec-Butylbenzene	206	5.0	ug/L	200.0	12.2	97	72-130	0.5	20	
Styrene	169	5.0	ug/L	200.0	BRL	84	77-128	4	17	
tert-Butylbenzene	215	5.0	ug/L	200.0	1.79	106	72-130	0.3	20	
Tetrachloroethylene	227	5.0	ug/L	200.0	BRL	113	76-130	5	20	
Toluene	157	5.0	ug/L	200.0	2.20	78	72-135	7	18	
trans-1,2-Dichloroethylene	204	5.0	ug/L	200.0	BRL	102	73-141	8	18	
trans-1,3-Dichloropropylene	138	5.0	ug/L	200.0	BRL	69	64-137	7	21	
Trichloroethylene	194	5.0	ug/L	200.0	BRL	97	72-133	7	17	
Trichlorofluoromethane	248	5.0	ug/L	200.0	BRL	124	61-152	5	27	
Vinyl acetate	202	20	ug/L	200.0	BRL	101	80-154	7	18	
Vinyl chloride	197	5.0	ug/L	200.0	BRL	98	54-146	6	25	
Surrogate: 4-Bromofluorobenzene	*57.9*		*ug/L*	*50.00*		*116*	*80-124*			
Surrogate: Dibromofluoromethane	*52.3*		*ug/L*	*50.00*		*105*	*75-129*			
Surrogate: Toluene-d8	*59.4*		*ug/L*	*50.00*		*119*	*77-123*			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0106 - 3510C MS										
Blank (P5B0106-BLK1)				Prepared: 02/05/15 Analyzed: 02/11/15						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,5-Trichlorophenol	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Methylphenol	BRL	10	ug/L							
2-Nitroaniline	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
3-Nitroaniline	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitroaniline	BRL	10	ug/L							
4-Nitrophenol	BRL	10	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Aniline	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Azobenzene	BRL	10	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0106 - 3510C MS										
Blank (P5B0106-BLK1)				Prepared: 02/05/15 Analyzed: 02/11/15						
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*92.5*		*ug/L*	*100.0*		*93*	*49-109*			
Surrogate: 2-Fluorobiphenyl	*43.7*		*ug/L*	*50.00*		*87*	*55-96*			
Surrogate: 2-Fluorophenol	*50.1*		*ug/L*	*100.0*		*50*	*27-74*			
Surrogate: Nitrobenzene-d5	*46.9*		*ug/L*	*50.00*		*94*	*53-99*			
Surrogate: Phenol-d5	*30.4*		*ug/L*	*100.0*		*30*	*11-52*			
Surrogate: Terphenyl-d14	*52.2*		*ug/L*	*50.00*		*104*	*42-133*			

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Prism Work Order: 5020003
Time Submitted: 2/2/2015 9:00:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0106 - 3510C MS										
LCS (P5B0106-BS1)				Prepared: 02/05/15 Analyzed: 02/11/15						
1,2,4-Trichlorobenzene	43.2	10	ug/L	50.00		86	45-103			
1,2-Dichlorobenzene	39.0	10	ug/L	50.00		78	43-100			
1,3-Dichlorobenzene	38.9	10	ug/L	50.00		78	42-98			
1,4-Dichlorobenzene	37.9	10	ug/L	50.00		76	42-100			
1-Methylnaphthalene	42.2	10	ug/L	50.00		84	45-135			
2,4,5-Trichlorophenol	42.7	10	ug/L	50.00		85	66-120			
2,4,6-Trichlorophenol	42.8	10	ug/L	50.00		86	62-121			
2,4-Dichlorophenol	43.2	10	ug/L	50.00		86	58-113			
2,4-Dimethylphenol	41.5	10	ug/L	50.00		83	42-120			
2,4-Dinitrophenol	43.1	10	ug/L	50.00		86	27-129			
2,4-Dinitrotoluene	47.9	10	ug/L	50.00		96	62-136			
2,6-Dinitrotoluene	46.8	10	ug/L	50.00		94	64-129			
2-Chloronaphthalene	57.0	10	ug/L	50.00		114	38-141			
2-Chlorophenol	37.2	10	ug/L	50.00		74	49-107			
2-Methylnaphthalene	43.1	10	ug/L	50.00		86	55-112			
2-Methylphenol	34.1	10	ug/L	50.00		68	40-106			
2-Nitroaniline	45.1	10	ug/L	50.00		90	65-122			
2-Nitrophenol	45.7	10	ug/L	50.00		91	57-115			
3,3'-Dichlorobenzidine	41.0	10	ug/L	50.00		82	58-139			
3/4-Methylphenol	31.3	10	ug/L	50.00		63	34-101			
3-Nitroaniline	41.2	10	ug/L	50.00		82	52-155			
4,6-Dinitro-2-methylphenol	46.5	10	ug/L	50.00		93	49-138			
4-Bromophenyl phenyl ether	41.9	10	ug/L	50.00		84	63-135			
4-Chloro-3-methylphenol	43.4	10	ug/L	50.00		87	33-149			
4-Chloroaniline	42.8	10	ug/L	50.00		86	44-163			
4-Chlorophenyl phenyl ether	42.1	10	ug/L	50.00		84	63-129			
4-Nitroaniline	43.6	10	ug/L	50.00		87	63-147			
4-Nitrophenol	17.7	10	ug/L	50.00		35	10-77			
Acenaphthene	41.3	10	ug/L	50.00		83	64-118			
Acenaphthylene	42.8	10	ug/L	50.00		86	65-119			
Aniline	36.7	10	ug/L	50.00		73	12-197			
Anthracene	45.6	10	ug/L	50.00		91	69-134			
Azobenzene	47.0	10	ug/L	50.00		94	56-129			
Benzo(a)anthracene	44.2	10	ug/L	50.00		88	71-125			
Benzo(a)pyrene	44.2	10	ug/L	50.00		88	67-135			
Benzo(b)fluoranthene	42.0	10	ug/L	50.00		84	56-145			
Benzo(g,h,i)perylene	42.8	10	ug/L	50.00		86	44-149			
Benzo(k)fluoranthene	45.0	10	ug/L	50.00		90	65-138			
Benzoic Acid	11.9	100	ug/L	50.00		24	10-125			J
Benzyl alcohol	28.8	10	ug/L	50.00		58	35-111			
bis(2-Chloroethoxy)methane	42.2	10	ug/L	50.00		84	49-126			
Bis(2-Chloroethyl)ether	41.5	10	ug/L	50.00		83	47-124			
Bis(2-chloroisopropyl)ether	36.8	10	ug/L	50.00		74	42-126			
Bis(2-Ethylhexyl)phthalate	41.4	10	ug/L	50.00		83	59-139			
Butyl benzyl phthalate	41.9	10	ug/L	50.00		84	67-133			
Chrysene	45.5	10	ug/L	50.00		91	64-124			

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners (Havelock)

Prism Work Order: 5020003
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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0106 - 3510C MS										
LCS (P5B0106-BS1)				Prepared: 02/05/15 Analyzed: 02/11/15						
Dibenzo(a,h)anthracene	43.6	10	ug/L	50.00		87	49-144			
Dibenzofuran	38.0	10	ug/L	50.00		76	68-113			
Diethyl phthalate	41.9	10	ug/L	50.00		84	70-124			
Dimethyl phthalate	41.5	10	ug/L	50.00		83	71-117			
Di-n-butyl phthalate	43.1	10	ug/L	50.00		86	69-128			
Di-n-octyl phthalate	42.1	10	ug/L	50.00		84	52-150			
Fluoranthene	44.2	10	ug/L	50.00		88	66-135			
Fluorene	43.1	10	ug/L	50.00		86	67-124			
Hexachlorobenzene	46.2	10	ug/L	50.00		92	62-124			
Hexachlorobutadiene	42.7	10	ug/L	50.00		85	42-105			
Hexachlorocyclopentadiene	40.0	10	ug/L	50.00		80	32-117			
Hexachloroethane	37.6	10	ug/L	50.00		75	40-99			
Indeno(1,2,3-cd)pyrene	43.6	10	ug/L	50.00		87	40-150			
Isophorone	47.6	10	ug/L	50.00		95	54-125			
Naphthalene	41.2	10	ug/L	50.00		82	54-111			
Nitrobenzene	45.2	10	ug/L	50.00		90	51-117			
N-Nitroso-di-n-propylamine	39.2	10	ug/L	50.00		78	55-115			
N-Nitrosodiphenylamine	43.1	10	ug/L	50.00		86	70-152			
Pentachlorophenol	45.0	10	ug/L	50.00		90	23-139			
Phenanthrene	43.1	10	ug/L	50.00		86	68-128			
Phenol	15.6	10	ug/L	50.00		31	12-58			
Pyrene	44.7	10	ug/L	50.00		89	62-139			
Surrogate: 2,4,6-Tribromophenol	*102*		*ug/L*	*100.0*		*102*	*49-109*			
Surrogate: 2-Fluorobiphenyl	*49.2*		*ug/L*	*50.00*		*98*	*55-96*			*SR*
Surrogate: 2-Fluorophenol	*56.3*		*ug/L*	*100.0*		*56*	*27-74*			
Surrogate: Nitrobenzene-d5	*50.3*		*ug/L*	*50.00*		*101*	*53-99*			*SR*
Surrogate: Phenol-d5	*33.5*		*ug/L*	*100.0*		*34*	*11-52*			
Surrogate: Terphenyl-d14	*54.4*		*ug/L*	*50.00*		*109*	*42-133*			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0106 - 3510C MS										
LCS Dup (P5B0106-BSD1)				Prepared: 02/05/15 Analyzed: 02/11/15						
1,2,4-Trichlorobenzene	31.7	10	ug/L	50.00		63	45-103	31	20	D
1,2-Dichlorobenzene	27.3	10	ug/L	50.00		55	43-100	35	20	D
1,3-Dichlorobenzene	27.1	10	ug/L	50.00		54	42-98	36	20	D
1,4-Dichlorobenzene	27.0	10	ug/L	50.00		54	42-100	34	20	D
1-Methylnaphthalene	31.8	10	ug/L	50.00		64	45-135	28	20	D
2,4,5-Trichlorophenol	34.8	10	ug/L	50.00		70	66-120	21	20	D
2,4,6-Trichlorophenol	34.0	10	ug/L	50.00		68	62-121	23	20	D
2,4-Dichlorophenol	31.6	10	ug/L	50.00		63	58-113	31	20	D
2,4-Dimethylphenol	31.5	10	ug/L	50.00		63	42-120	27	20	D
2,4-Dinitrophenol	31.4	10	ug/L	50.00		63	27-129	31	20	D
2,4-Dinitrotoluene	41.0	10	ug/L	50.00		82	62-136	16	20	
2,6-Dinitrotoluene	40.8	10	ug/L	50.00		82	64-129	14	20	
2-Chloronaphthalene	37.9	10	ug/L	50.00		76	38-141	40	20	D
2-Chlorophenol	25.1	10	ug/L	50.00		50	49-107	39	20	D
2-Methylnaphthalene	33.0	10	ug/L	50.00		66	55-112	26	20	D
2-Methylphenol	24.1	10	ug/L	50.00		48	40-106	34	20	D
2-Nitroaniline	36.4	10	ug/L	50.00		73	65-122	21	20	D
2-Nitrophenol	33.4	10	ug/L	50.00		67	57-115	31	20	D
3,3'-Dichlorobenzidine	37.0	10	ug/L	50.00		74	58-139	10	20	
3/4-Methylphenol	23.4	10	ug/L	50.00		47	34-101	29	20	D
3-Nitroaniline	36.3	10	ug/L	50.00		73	52-155	13	20	
4,6-Dinitro-2-methylphenol	39.2	10	ug/L	50.00		78	49-138	17	20	
4-Bromophenyl phenyl ether	37.0	10	ug/L	50.00		74	63-135	12	20	
4-Chloro-3-methylphenol	36.3	10	ug/L	50.00		73	33-149	18	20	
4-Chloroaniline	32.9	10	ug/L	50.00		66	44-163	26	20	D
4-Chlorophenyl phenyl ether	35.6	10	ug/L	50.00		71	63-129	17	20	
4-Nitroaniline	39.6	10	ug/L	50.00		79	63-147	10	20	
4-Nitrophenol	16.4	10	ug/L	50.00		33	10-77	8	20	
Acenaphthene	33.2	10	ug/L	50.00		66	64-118	22	20	D
Acenaphthylene	33.9	10	ug/L	50.00		68	65-119	23	20	D
Aniline	28.2	10	ug/L	50.00		56	12-197	26	20	D
Anthracene	40.3	10	ug/L	50.00		81	69-134	12	20	
Azobenzene	40.7	10	ug/L	50.00		81	56-129	14	20	
Benzo(a)anthracene	40.0	10	ug/L	50.00		80	71-125	10	20	
Benzo(a)pyrene	40.1	10	ug/L	50.00		80	67-135	10	20	
Benzo(b)fluoranthene	39.2	10	ug/L	50.00		78	56-145	7	20	
Benzo(g,h,i)perylene	38.5	10	ug/L	50.00		77	44-149	10	20	
Benzo(k)fluoranthene	39.3	10	ug/L	50.00		79	65-138	13	20	
Benzoic Acid	3.39	100	ug/L	50.00		7	10-125	111	20	D, L2, J
Benzyl alcohol	21.3	10	ug/L	50.00		43	35-111	30	20	D
bis(2-Chloroethoxy)methane	31.2	10	ug/L	50.00		62	49-126	30	20	D
Bis(2-Chloroethyl)ether	24.8	10	ug/L	50.00		50	47-124	50	20	D
Bis(2-chloroisopropyl)ether	25.5	10	ug/L	50.00		51	42-126	36	20	D
Bis(2-Ethylhexyl)phthalate	36.9	10	ug/L	50.00		74	59-139	11	20	
Butyl benzyl phthalate	37.6	10	ug/L	50.00		75	67-133	11	20	
Chrysene	41.3	10	ug/L	50.00		83	64-124	10	20	

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0106 - 3510C MS										
LCS Dup (P5B0106-BSD1)				Prepared: 02/05/15 Analyzed: 02/11/15						
Dibenzo(a,h)anthracene	39.6	10	ug/L	50.00		79	49-144	9	20	
Dibenzofuran	31.7	10	ug/L	50.00		63	68-113	18	20	D
Diethyl phthalate	37.1	10	ug/L	50.00		74	70-124	12	20	
Dimethyl phthalate	36.1	10	ug/L	50.00		72	71-117	14	20	
Di-n-butyl phthalate	38.6	10	ug/L	50.00		77	69-128	11	20	
Di-n-octyl phthalate	37.8	10	ug/L	50.00		76	52-150	11	20	
Fluoranthene	39.5	10	ug/L	50.00		79	66-135	11	20	
Fluorene	36.1	10	ug/L	50.00		72	67-124	18	20	
Hexachlorobenzene	41.2	10	ug/L	50.00		82	62-124	12	20	
Hexachlorobutadiene	31.6	10	ug/L	50.00		63	42-105	30	20	D
Hexachlorocyclopentadiene	27.8	10	ug/L	50.00		56	32-117	36	20	D
Hexachloroethane	26.6	10	ug/L	50.00		53	40-99	34	20	D
Indeno(1,2,3-cd)pyrene	41.1	10	ug/L	50.00		82	40-150	6	20	
Isophorone	36.7	10	ug/L	50.00		73	54-125	26	20	D
Naphthalene	30.4	10	ug/L	50.00		61	54-111	30	20	D
Nitrobenzene	32.2	10	ug/L	50.00		64	51-117	33	20	D
N-Nitroso-di-n-propylamine	29.3	10	ug/L	50.00		59	55-115	29	20	D
N-Nitrosodiphenylamine	38.4	10	ug/L	50.00		77	70-152	12	20	
Pentachlorophenol	38.2	10	ug/L	50.00		76	23-139	16	20	
Phenanthrene	38.8	10	ug/L	50.00		78	68-128	11	20	
Phenol	11.3	10	ug/L	50.00		23	12-58	32	20	D
Pyrene	40.0	10	ug/L	50.00		80	62-139	11	20	
Surrogate: 2,4,6-Tribromophenol	*81.5*		*ug/L*	*100.0*		*82*	*49-109*			
Surrogate: 2-Fluorobiphenyl	*33.9*		*ug/L*	*50.00*		*68*	*55-96*			
Surrogate: 2-Fluorophenol	*36.6*		*ug/L*	*100.0*		*37*	*27-74*			
Surrogate: Nitrobenzene-d5	*33.3*		*ug/L*	*50.00*		*67*	*53-99*			
Surrogate: Phenol-d5	*22.3*		*ug/L*	*100.0*		*22*	*11-52*			
Surrogate: Terphenyl-d14	*45.0*		*ug/L*	*50.00*		*90*	*42-133*			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0106 - 3510C MS										
Matrix Spike (P5B0106-MS1)	**Source: 5020003-03**			Prepared: 02/05/15 Analyzed: 02/11/15						
1,2,4-Trichlorobenzene	73.1	20	ug/L	100.0	BRL	73	44-100			
1,2-Dichlorobenzene	62.0	20	ug/L	100.0	BRL	62	42-99			
1,3-Dichlorobenzene	61.9	20	ug/L	100.0	BRL	62	35-101			
1,4-Dichlorobenzene	62.0	20	ug/L	100.0	BRL	62	43-97			
1-Methylnaphthalene	74.5	20	ug/L	100.0	BRL	74	45-135			
2,4,5-Trichlorophenol	78.3	20	ug/L	100.0	BRL	78	51-122			
2,4,6-Trichlorophenol	79.8	20	ug/L	100.0	BRL	80	46-117			
2,4-Dichlorophenol	76.8	20	ug/L	100.0	BRL	77	42-108			
2,4-Dimethylphenol	72.4	20	ug/L	100.0	BRL	72	13-122			
2,4-Dinitrophenol	88.1	20	ug/L	100.0	BRL	88	10-166			
2,4-Dinitrotoluene	90.0	20	ug/L	100.0	BRL	90	64-135			
2,6-Dinitrotoluene	90.5	20	ug/L	100.0	BRL	90	50-146			
2-Chloronaphthalene	89.4	20	ug/L	100.0	BRL	89	46-114			
2-Chlorophenol	59.4	20	ug/L	100.0	BRL	59	36-94			
2-Methylnaphthalene	75.4	20	ug/L	100.0	BRL	75	36-115			
2-Methylphenol	60.7	20	ug/L	100.0	BRL	61	27-92			
2-Nitroaniline	80.3	20	ug/L	100.0	BRL	80	51-139			
2-Nitrophenol	78.0	20	ug/L	100.0	BRL	78	43-108			
3,3'-Dichlorobenzidine	BRL	20	ug/L	100.0	BRL		10-214			MI
3/4-Methylphenol	61.9	20	ug/L	100.0	BRL	62	22-84			
3-Nitroaniline	71.2	20	ug/L	100.0	BRL	71	50-145			
4,6-Dinitro-2-methylphenol	89.4	20	ug/L	100.0	BRL	89	25-152			
4-Bromophenyl phenyl ether	79.3	20	ug/L	100.0	BRL	79	52-128			
4-Chloro-3-methylphenol	80.6	20	ug/L	100.0	BRL	81	44-110			
4-Chloroaniline	14.9	20	ug/L	100.0	BRL	15	10-156			J
4-Chlorophenyl phenyl ether	77.3	20	ug/L	100.0	BRL	77	55-125			
4-Nitroaniline	78.9	20	ug/L	100.0	BRL	79	39-159			
4-Nitrophenol	56.9	20	ug/L	100.0	BRL	57	10-105			
Acenaphthene	76.4	20	ug/L	100.0	BRL	76	55-117			
Acenaphthylene	72.1	20	ug/L	100.0	BRL	72	52-121			
Aniline	52.6	20	ug/L	100.0	BRL	53	11-124			
Anthracene	81.6	20	ug/L	100.0	BRL	82	60-136			
Azobenzene	83.4	20	ug/L	100.0	BRL	83	50-135			
Benzo(a)anthracene	81.7	20	ug/L	100.0	BRL	82	64-135			
Benzo(a)pyrene	77.2	20	ug/L	100.0	BRL	77	68-136			
Benzo(b)fluoranthene	81.9	20	ug/L	100.0	BRL	82	61-149			
Benzo(g,h,i)perylene	83.0	20	ug/L	100.0	BRL	83	47-151			
Benzo(k)fluoranthene	85.0	20	ug/L	100.0	BRL	85	45-148			
Benzoic Acid	62.1	200	ug/L	100.0	BRL	62	10-125			J
Benzyl alcohol	53.8	20	ug/L	100.0	BRL	54	30-97			
bis(2-Chloroethoxy)methane	72.9	20	ug/L	100.0	BRL	73	43-119			
Bis(2-Chloroethyl)ether	67.0	20	ug/L	100.0	BRL	67	36-115			
Bis(2-chloroisopropyl)ether	57.4	20	ug/L	100.0	BRL	57	36-113			
Bis(2-Ethylhexyl)phthalate	76.7	20	ug/L	100.0	BRL	77	50-168			
Butyl benzyl phthalate	76.7	20	ug/L	100.0	BRL	77	52-166			
Chrysene	84.8	20	ug/L	100.0	BRL	85	62-135			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0106 - 3510C MS										
Matrix Spike (P5B0106-MS1)	**Source: 5020003-03**			Prepared: 02/05/15 Analyzed: 02/11/15						
Dibenzo(a,h)anthracene	85.7	20	ug/L	100.0	BRL	86	45-155			
Dibenzofuran	70.3	20	ug/L	100.0	BRL	70	58-119			
Diethyl phthalate	78.5	20	ug/L	100.0	BRL	78	55-137			
Dimethyl phthalate	77.2	20	ug/L	100.0	BRL	77	46-135			
Di-n-butyl phthalate	79.6	20	ug/L	100.0	BRL	80	53-141			
Di-n-octyl phthalate	81.4	20	ug/L	100.0	BRL	81	48-166			
Fluoranthene	82.0	20	ug/L	100.0	BRL	82	51-136			
Fluorene	78.8	20	ug/L	100.0	BRL	79	57-121			
Hexachlorobenzene	85.6	20	ug/L	100.0	BRL	86	55-131			
Hexachlorobutadiene	73.9	20	ug/L	100.0	BRL	74	39-110			
Hexachlorocyclopentadiene	69.9	20	ug/L	100.0	BRL	70	26-122			
Hexachloroethane	80.6	20	ug/L	100.0	BRL	81	37-98			
Indeno(1,2,3-cd)pyrene	85.1	20	ug/L	100.0	BRL	85	14-177			
Isophorone	83.5	20	ug/L	100.0	BRL	84	49-113			
Naphthalene	75.4	20	ug/L	100.0	6.09	69	38-109			
Nitrobenzene	78.4	20	ug/L	100.0	BRL	78	34-117			
N-Nitroso-di-n-propylamine	68.8	20	ug/L	100.0	BRL	69	44-115			
N-Nitrosodiphenylamine	67.4	20	ug/L	100.0	BRL	67	57-156			
Pentachlorophenol	85.5	20	ug/L	100.0	BRL	85	17-167			
Phenanthrene	81.1	20	ug/L	100.0	BRL	81	62-131			
Phenol	41.3	20	ug/L	100.0	BRL	41	10-68			
Pyrene	81.8	20	ug/L	100.0	BRL	82	46-156			
Surrogate: 2,4,6-Tribromophenol	*175*		*ug/L*	*200.0*		*87*	*49-109*			
Surrogate: 2-Fluorobiphenyl	*78.8*		*ug/L*	*100.0*		*79*	*55-96*			
Surrogate: 2-Fluorophenol	*99.8*		*ug/L*	*200.0*		*50*	*27-74*			
Surrogate: Nitrobenzene-d5	*74.7*		*ug/L*	*100.0*		*75*	*53-99*			
Surrogate: Phenol-d5	*80.9*		*ug/L*	*200.0*		*40*	*11-52*			
Surrogate: Terphenyl-d14	*92.4*		*ug/L*	*100.0*		*92*	*42-133*			

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners
(Havelock)

Prism Work Order: 5020003
Time Submitted: 2/2/2015 9:00:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0106 - 3510C MS										
Matrix Spike Dup (P5B0106-MSD1)	**Source: 5020003-03**			Prepared: 02/05/15 Analyzed: 02/11/15						
1,2,4-Trichlorobenzene	64.6	20	ug/L	100.0	BRL	65	44-100	12	30	
1,2-Dichlorobenzene	54.0	20	ug/L	100.0	BRL	54	42-99	14	34	
1,3-Dichlorobenzene	52.9	20	ug/L	100.0	BRL	53	35-101	16	36	
1,4-Dichlorobenzene	52.9	20	ug/L	100.0	BRL	53	43-97	16	35	
1-Methylnaphthalene	65.5	20	ug/L	100.0	BRL	66	45-135	13	50	
2,4,5-Trichlorophenol	75.7	20	ug/L	100.0	BRL	76	51-122	3	22	
2,4,6-Trichlorophenol	75.7	20	ug/L	100.0	BRL	76	46-117	5	30	
2,4-Dichlorophenol	63.3	20	ug/L	100.0	BRL	63	42-108	19	33	
2,4-Dimethylphenol	56.4	20	ug/L	100.0	BRL	56	13-122	25	36	
2,4-Dinitrophenol	87.6	20	ug/L	100.0	BRL	88	10-166	0.5	41	
2,4-Dinitrotoluene	93.2	20	ug/L	100.0	BRL	93	64-135	4	24	
2,6-Dinitrotoluene	91.4	20	ug/L	100.0	BRL	91	50-146	0.9	28	
2-Chloronaphthalene	81.7	20	ug/L	100.0	BRL	82	46-114	9	30	
2-Chlorophenol	50.3	20	ug/L	100.0	BRL	50	36-94	17	37	
2-Methylnaphthalene	68.3	20	ug/L	100.0	BRL	68	36-115	10	33	
2-Methylphenol	49.2	20	ug/L	100.0	BRL	49	27-92	21	36	
2-Nitroaniline	81.9	20	ug/L	100.0	BRL	82	51-139	2	24	
2-Nitrophenol	66.2	20	ug/L	100.0	BRL	66	43-108	16	33	
3,3'-Dichlorobenzidine	7.02	20	ug/L	100.0	BRL	7	10-214		34	MI, J
3/4-Methylphenol	49.0	20	ug/L	100.0	BRL	49	22-84	23	30	
3-Nitroaniline	76.8	20	ug/L	100.0	BRL	77	50-145	8	24	
4,6-Dinitro-2-methylphenol	88.3	20	ug/L	100.0	BRL	88	25-152	1	35	
4-Bromophenyl phenyl ether	82.5	20	ug/L	100.0	BRL	82	52-128	4	21	
4-Chloro-3-methylphenol	75.8	20	ug/L	100.0	BRL	76	44-110	6	25	
4-Chloroaniline	62.1	20	ug/L	100.0	BRL	62	10-156	123	38	D
4-Chlorophenyl phenyl ether	78.6	20	ug/L	100.0	BRL	79	55-125	2	29	
4-Nitroaniline	82.0	20	ug/L	100.0	BRL	82	39-159	4	29	
4-Nitrophenol	51.8	20	ug/L	100.0	BRL	52	10-105	9	40	
Acenaphthene	74.3	20	ug/L	100.0	BRL	74	55-117	3	33	
Acenaphthylene	72.6	20	ug/L	100.0	BRL	73	52-121	0.8	30	
Aniline	47.3	20	ug/L	100.0	BRL	47	11-124	11	35	
Anthracene	86.7	20	ug/L	100.0	BRL	87	60-136	6	27	
Azobenzene	85.5	20	ug/L	100.0	BRL	86	50-135	2	34	
Benzo(a)anthracene	84.9	20	ug/L	100.0	BRL	85	64-135	4	18	
Benzo(a)pyrene	80.7	20	ug/L	100.0	BRL	81	68-136	4	21	
Benzo(b)fluoranthene	82.7	20	ug/L	100.0	BRL	83	61-149	0.9	34	
Benzo(g,h,i)perylene	83.1	20	ug/L	100.0	BRL	83	47-151	0.1	27	
Benzo(k)fluoranthene	84.9	20	ug/L	100.0	BRL	85	45-148	0.2	39	
Benzoic Acid	49.6	200	ug/L	100.0	BRL	50	10-125	22	51	J
Benzyl alcohol	46.8	20	ug/L	100.0	BRL	47	30-97	14	37	
bis(2-Chloroethoxy)methane	62.6	20	ug/L	100.0	BRL	63	43-119	15	30	
Bis(2-Chloroethyl)ether	50.8	20	ug/L	100.0	BRL	51	36-115	28	33	
Bis(2-chloroisopropyl)ether	49.3	20	ug/L	100.0	BRL	49	36-113	15	34	
Bis(2-Ethylhexyl)phthalate	80.9	20	ug/L	100.0	BRL	81	50-168	5	21	
Butyl benzyl phthalate	78.6	20	ug/L	100.0	BRL	79	52-166	2	23	
Chrysene	88.5	20	ug/L	100.0	BRL	88	62-135	4	22	

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Eric Aufderhaar
409 Rogers View Court
Raleigh, NC 27610

Project: Mel-Burn Dry Cleaners
(Havelock)

Prism Work Order: 5020003
Time Submitted: 2/2/2015 9:00:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0106 - 3510C MS										
Matrix Spike Dup (P5B0106-MSD1)	**Source: 5020003-03**			Prepared: 02/05/15 Analyzed: 02/11/15						
Dibenzo(a,h)anthracene	84.4	20	ug/L	100.0	BRL	84	45-155	1	28	
Dibenzofuran	69.3	20	ug/L	100.0	BRL	69	58-119	1	23	
Diethyl phthalate	81.4	20	ug/L	100.0	BRL	81	55-137	4	22	
Dimethyl phthalate	79.8	20	ug/L	100.0	BRL	80	46-135	3	25	
Di-n-butyl phthalate	82.5	20	ug/L	100.0	BRL	82	53-141	4	24	
Di-n-octyl phthalate	80.6	20	ug/L	100.0	BRL	81	48-166	1	21	
Fluoranthene	86.2	20	ug/L	100.0	BRL	86	51-136	5	26	
Fluorene	80.4	20	ug/L	100.0	BRL	80	57-121	2	30	
Hexachlorobenzene	88.1	20	ug/L	100.0	BRL	88	55-131	3	29	
Hexachlorobutadiene	63.7	20	ug/L	100.0	BRL	64	39-110	15	35	
Hexachlorocyclopentadiene	58.7	20	ug/L	100.0	BRL	59	26-122	17	36	
Hexachloroethane	72.0	20	ug/L	100.0	BRL	72	37-98	11	37	
Indeno(1,2,3-cd)pyrene	87.0	20	ug/L	100.0	BRL	87	14-177	2	34	
Isophorone	75.5	20	ug/L	100.0	BRL	76	49-113	10	27	
Naphthalene	67.5	20	ug/L	100.0	6.09	61	38-109	11	35	
Nitrobenzene	71.3	20	ug/L	100.0	BRL	71	34-117	9	34	
N-Nitroso-di-n-propylamine	56.2	20	ug/L	100.0	BRL	56	44-115	20	33	
N-Nitrosodiphenylamine	73.0	20	ug/L	100.0	BRL	73	57-156	8	26	
Pentachlorophenol	81.9	20	ug/L	100.0	BRL	82	17-167	4	36	
Phenanthrene	83.7	20	ug/L	100.0	BRL	84	62-131	3	23	
Phenol	31.7	20	ug/L	100.0	BRL	32	10-68	26	43	
Pyrene	86.2	20	ug/L	100.0	BRL	86	46-156	5	31	
Surrogate: 2,4,6-Tribromophenol	*177*		*ug/L*	*200.0*		*88*	*49-109*			
Surrogate: 2-Fluorobiphenyl	*73.3*		*ug/L*	*100.0*		*73*	*55-96*			
Surrogate: 2-Fluorophenol	*84.6*		*ug/L*	*200.0*		*42*	*27-74*			
Surrogate: Nitrobenzene-d5	*68.8*		*ug/L*	*100.0*		*69*	*53-99*			
Surrogate: Phenol-d5	*62.8*		*ug/L*	*200.0*		*31*	*11-52*			
Surrogate: Terphenyl-d14	*97.8*		*ug/L*	*100.0*		*98*	*42-133*			

Sample Extraction Data

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date/Time
5020003-03	P5B0106	1000 mL	1 mL	02/05/15 14:10
5020003-04	P5B0106	1000 mL	1 mL	02/05/15 14:10
5020003-05	P5B0106	1000 mL	1 mL	02/05/15 14:10
5020003-06	P5B0106	1000 mL	1 mL	02/05/15 14:10

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
5020003-01	P5B0063	10 mL	10 mL	02/03/15 9:02
5020003-02	P5B0063	10 mL	10 mL	02/03/15 9:02
5020003-03	P5B0063	10 mL	10 mL	02/03/15 9:02
5020003-03	P5B0063	10 mL	10 mL	02/03/15 9:02
5020003-04	P5B0063	10 mL	10 mL	02/03/15 9:02
5020003-04	P5B0063	10 mL	10 mL	02/03/15 9:02
5020003-05	P5B0063	10 mL	10 mL	02/03/15 9:02
5020003-06	P5B0063	10 mL	10 mL	02/03/15 9:02
5020003-06	P5B0063	10 mL	10 mL	02/03/15 9:02

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Project Name: Mel-Burn Laundry (Havelock)
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To:
Address: SAME

Client Company Name: Mid-Atlantic Assoc.
Report To/Contact Name: Eric Aufderhaar
Reporting Address: 409 Rogers View Ct. Raleigh, N.C. 27610
Phone: (919) 250-9918 Fax (Yes) (No): (919) 250-9950
Email Address:
EDD Type: PDF___ Excel___ Other___
Site Location Name: Mel-Burn Dry Cleaners
Site Location Physical Address: 344 E. Main St. Havelock, N.C.

Purchase Order No./Billing Reference: PO 2478,00 T,4065

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?		✓	
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR7-W Observed: 2.6 °C / Corr: 1.2 °C

Page 46 of 46

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC___ DoD___ FL___ NC___ SC___ OTHER___ N/A___
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES___ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSIS REQUESTED 8260	ANALYSIS REQUESTED 8270	REMARKS	PRISM LAB ID NO.
Trip blank	1/29/15		H2O								01
Equipment Rinse blank		0845									02
TMW-1		1145									03
TMW-3		1045									04
TMW-5		0950									05
Duplicate		1150									06

Sampler's Signature: Gary A. Fiske Sampled By (Print Name): Gary A. Fiske Affiliation: MAI

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature) Gary A. Fiske	Received By: (Signature)	1-30-15	12:45
Relinquished By: (Signature)	Received By: (Signature)	1-31-15	0715
Relinquished By: (Signature) 1-31-15 0730 Stored in fridge	Received For Prism Laboratories By:	2/02/15	0900

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☒ Other Beaver

COC Group No. 5020003

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___	☐ NC ☐ SC ☐ ___

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL